




<b>SPECIFICATION SHEET NO.</b>	S0430 – RABS26S0RABS26	
<b>ORIGINAL MFG/PART NO.</b>	MDD Diodes/RABS26	
<b>NEXTGEN PART CODE</b>	RABS26S0RABS26	Indicate This Code For <a href="#">RFQ</a> /Order
<b>DATE</b>	Apr. 30, 2025	
<b>REVISION</b>	A3	Updated With Most Recent Data
<b>DESCRIPTION AND MAIN PARAMETRICS</b>	<p>SMD Glass Passivated Bridge Rectifiers, RABS Series, 4 Pads</p> <p>Repetitive Peak Reverse Voltage: 600V Max.</p> <p>Forward Current 2.0A Max.</p> <p>Operating Temp. Range -55°C ~+150°C</p> <p>Package in Tape/Reel, 5000pcs/Reel</p> <p>RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)</p>	
<b>CUSTOMER</b>		
<b>CUSTOMER PART NUMBER</b>		
<b>CROSS REF. PART NUMBER</b>		
<b>MEMO</b>		

<b>VENDOR APPROVE</b>		
Issued/Checked/Approved		
Effective Date: Apr. 30, 2025		

<b>CUSTOMER APPROVE</b>
Date:

## MAIN FEATURE

- Glass Passivated Chip Junction
- Reverse Voltage - 100 to 1000 V
- Forward Current - 2A
- Fast Reverse Recovery Time
- Surface Mount Package Ideally Suited for Automatic Insertion
- Meet MSL 1 Requirement
- Cross Competitors Parts and More.
- RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)



*Image shown is a representation only. Exact specifications should be obtained from the product dimension.*

## APPLICATION

- For Printed Circuit Board

## ELECTRICAL CHARACTERISTICS

- See Page 5 ~ Page 6 For Different Part Code.
- All Products Parameters are Subject To NextGen Components' Final Confirmation.



## HOW TO ORDER

- Please Follow Up Part Code Guide And Indicate NextGen Part Code RABS26S0RABS26 For RFQ and Order.

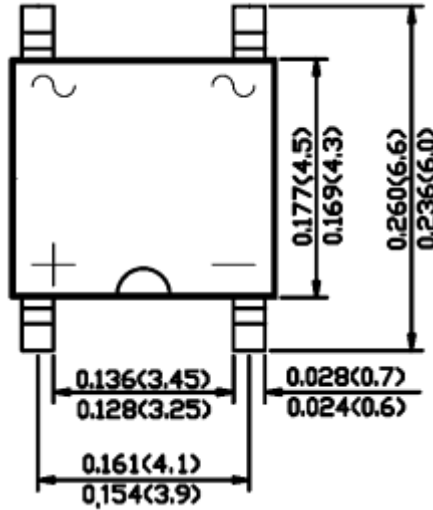
## PART CODE GUIDE

**RFQ**  
[Request For Quotation](#)

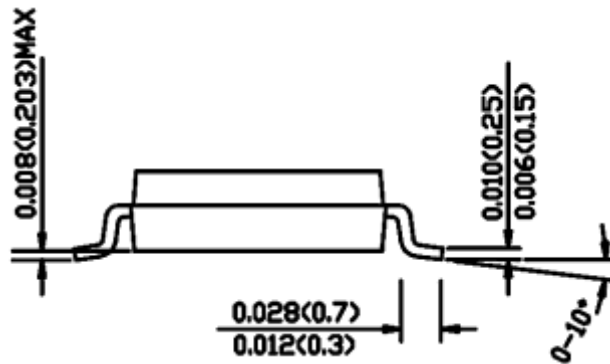
CODE	NAME	KEY SPECIFICATION OPTION
RABS	Product Series Code	SMD Glass Passivated Fast Recovery Bridge Rectifiers, Case ABS, 4 Pads
26	Repetitive Peak Reverse Voltage Code	21: 100V Max.; 22: 200V Max.; 24: 400V Max. 26: 600V Max; 28: 800V Max. ; 210: 1000V Max.
S0	Internal Control Code	Letter or Digits (A~Z, a~z or 0~9)
RABS26	Marking Code	Marking "RABS26"
XX	Special/Custom Parameters Code	Letter or Digits (A~Z, a~z or 0~9) for Special Parametric; Blank: N/A

**DIMENSION** - Unit: mm, Case ABS, Inch/mm

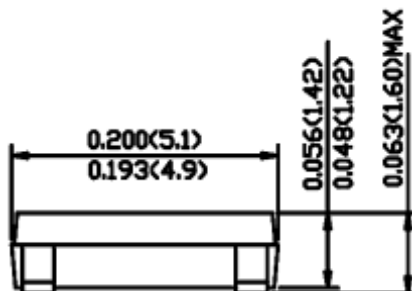
Top View



Side View

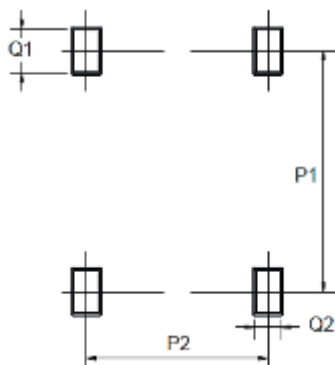


Side View

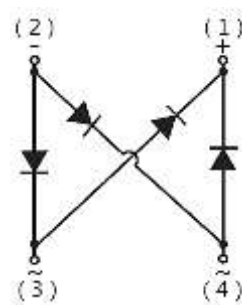


Recommend Pad Layout - Tolerance:  $\pm 0.05\text{mm}$

Circuit Diagram



Symbol	Min. (mm)
P1	5.72
P2	4.00
Q1	1.00
Q2	0.90



## MECHANICAL CHARACTERISTICS

CASE	FLAMMABILITY RATING	TERMINALS	MARKING
JEDEC ABS molded plastic body	UL 94V-0	Solder plated, solderable per MIL-STD-750, Method 2026	See Marking list For different part code

## ABSOLUTE MAX. RATING & CHARACTERISTICS - $T_A = 25^\circ\text{C}$ unless otherwise specified, For Reference Only

PARAMETER		SYMBOLS	VALUE	UNITS
Average Rectified Output Current at $T_c = 115^\circ\text{C}$		$I_O$	2	A
Max. DC Reverse Current Rated DC Blocking Voltage	$T_A = 25^\circ\text{C}$	$I_R$	5	$\mu\text{A}$
	$T_A = 125^\circ\text{C}$		200	
Typical Thermal Resistance (Note4)		$R_{\theta JA}$	50	$^\circ\text{C/W}$
Typical Junction Capacitance (Note3)		$C_J$	40	pF
Maximum Reverse Recovery Time (Note5)		$t_{rr}$	500	ns
Operating and Storage Temperature Range		$T_J, T_{STG}$	-55 ~ + 150	$^\circ\text{C}$

**ELECTRICAL PARAMETERS** – FOR DIFFERENT PART CODE- Ta = 25°C

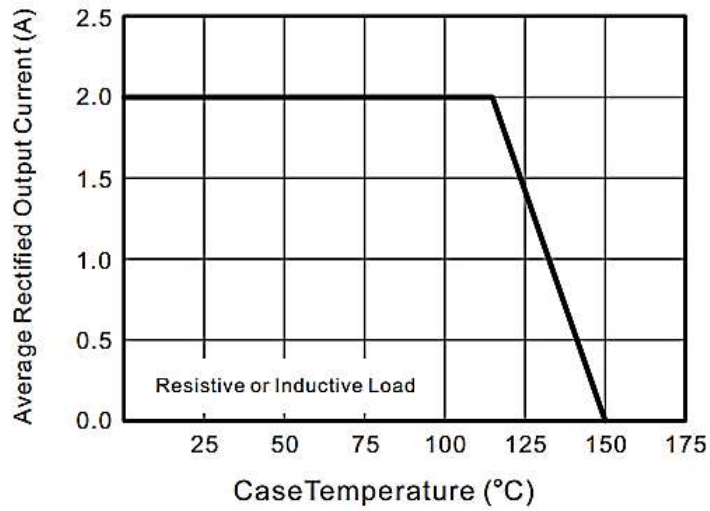
PART CODE	MAX. REPETITIVE PEAK REVERSE VOLTAGE	MAX. RMS VOLTAGE	MAX. BLOCKING VOLTAGE	PEAK FORWARD SURGE CURRENT, 8.3MS SINGLE HALF SINE- WAVE SUPERIMPOSED ON RATED LOAD	MAX. INSTANTANEOUS FORWARD VOLTAGE DROP PER LEG @2.0A	MARKING LIST
	VRRM	VRMS	VDC	IFSM	VF	
	V	V	V	A	V	
RABS21S0RABS21	100	70	100	50	1.30	RABS21
RABS22S0RABS22	200	140	200	50	1.30	RABS22
RABS24S0RABS24	400	280	400	50	1.30	RABS24
<b>RABS26S0RABS26</b>	600	420	600	50	1.30	RABS26
RABS28S0RABS28	800	560	800	50	1.30	RABS28
RABS210S0RABS210	1000	700	1000	50	1.30	RABS210

**Note**

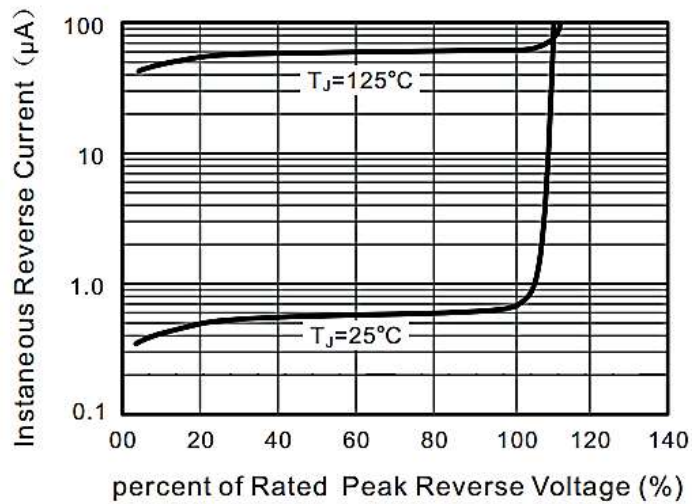
1. Ratings at 25 C ambient temperature unless otherwise specified.
2. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.
3. Measured at 1MHz and applied reverse voltage of 4 V D.C.
4. Mounted on glass epoxy PC board with 4×1.5"×1.5" (3.81×3.81 cm) copper pad areas.
5. Measured with I = 0.5 A, I = 1 A, Irr = 0.25 A .

**RATINGS AND CHARACTERISTICS CURVES-** For Reference Only, Ta=25°C Unless Otherwise Specified.

**Fig.1 Average Rectified Output Current Derating Curve**

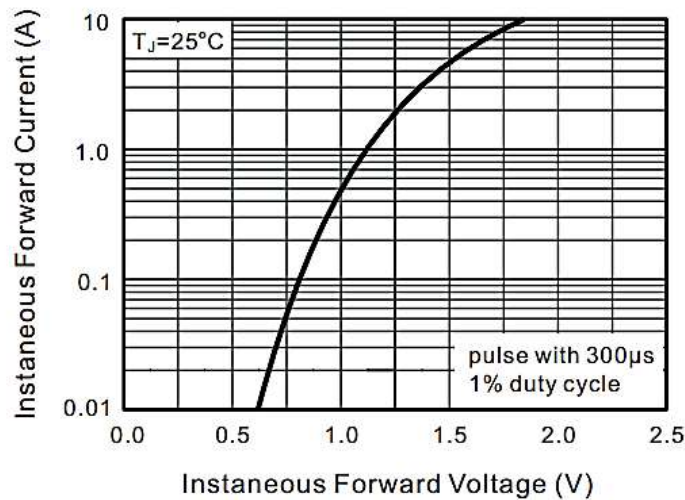


**Fig.2 Typical Reverse Characteristics**

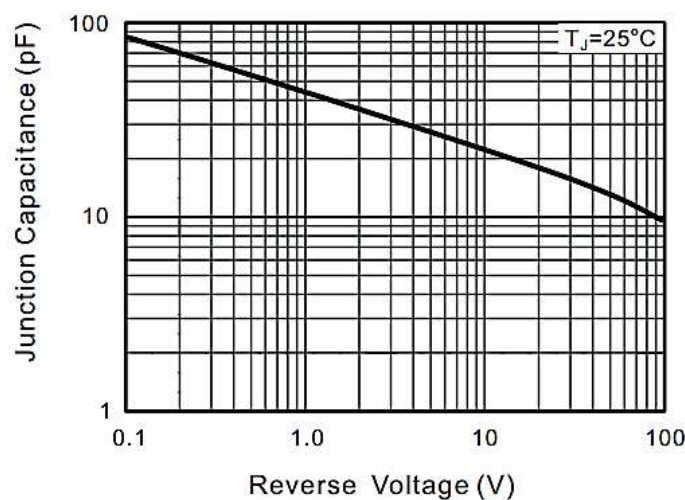


**RATINGS AND CHARACTERISTICS CURVES-** For Reference Only, Ta=25°C Unless Otherwise Specified.

**Fig.3 Typical Instaneous Forward Characteristics**

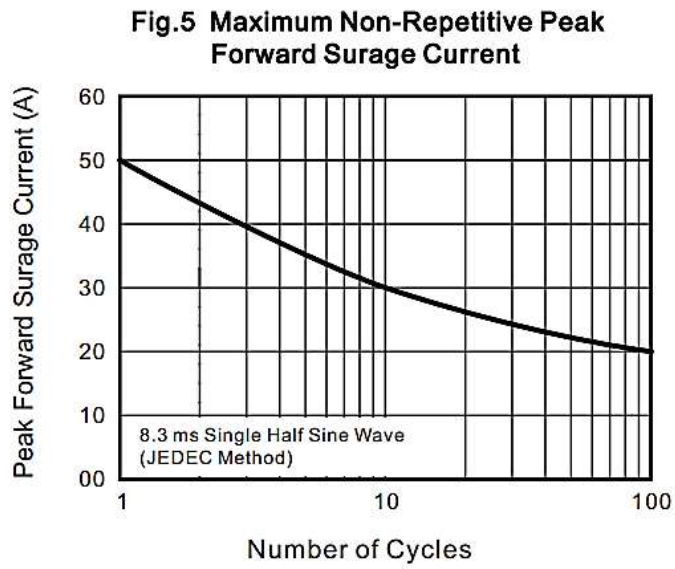


**Fig.4 Typical Junction Capacitance**

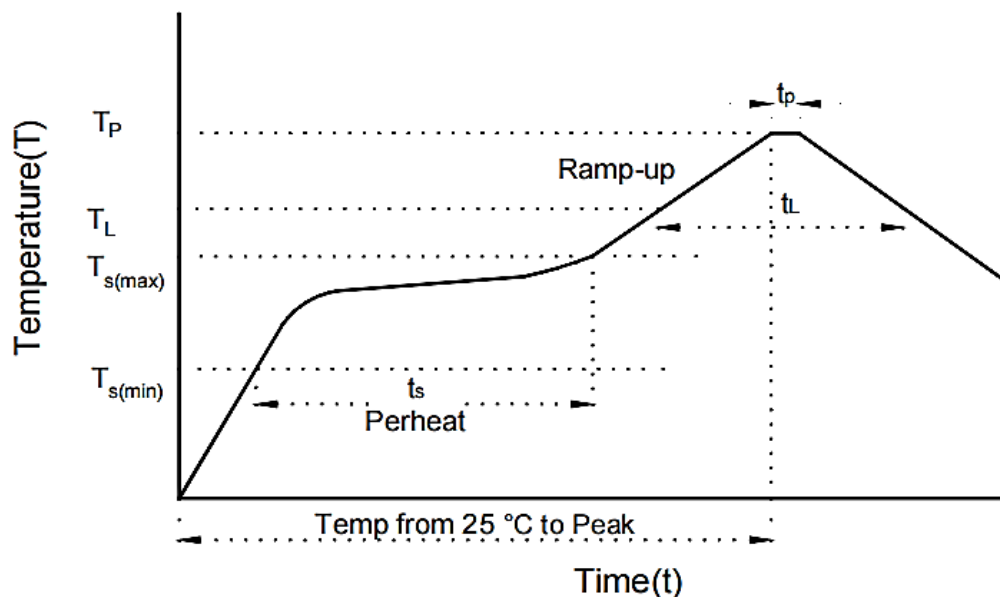




**RATINGS AND CHARACTERISTICS CURVES-** For Reference Only, Ta=25°C Unless Otherwise Specified.

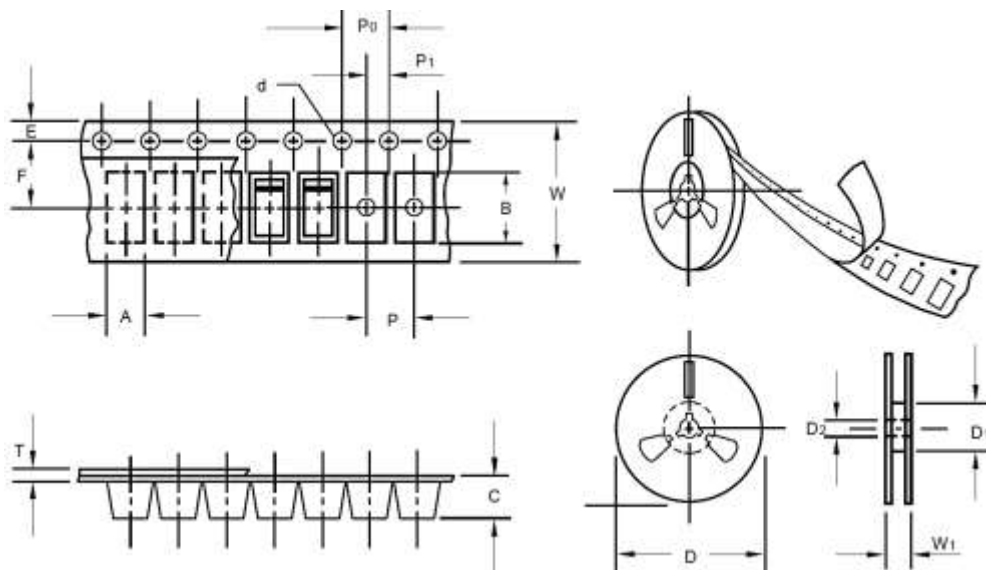


# **SUGGESTED REFLOW PROFILE** - For Reference Only



PROFILE FEATURE		PB-FREE ASSEMBLY
Average Ramp-up Rate (TL Max to Tp)		3°C/second Max
Preheat	Temperature Min (Ts Min.)	150°C
	Temperature Max (Ts Max.)	200°C
	Time (ts Min. to ts Max.)	60 ~ 180 seconds
Time maintained above	Temperature (TL)	217°C
	Time (tL)	60 ~ 150 seconds
Peak/Classification Temperature (Tp)		260 °C
Time within 5°C of actual Peak Temperature (tp)		10 seconds Max.
Ramp-down Rate		6 °C /Second Max.
Time 25 °C to Peak Temperature		8 Minutes Max.
Suggest reflow times		3 Times Max.

**TAPE/REEL** - Unit: mm, All Devices are packed in accordance with EIA standard RS-481-A and specifications



ITEM	SYMBOL	TOLERANCE	ABS
Carrier width	A	0.1	2.8
Carrier Length	B	0.1	5.33
Carrier Depth	C	0.1	2.36
Sprocket hole	d	0.05	1.5
7"Reel outside diameter	D	2	330
7"Reel inner diameter	D1	Min.	50
Feed hole diameter	D2	0.5	13
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	5.5
Punch hole pitch	P	0.1	4
Sprocket hole pitch	P0	0.1	4
Embossment center	P1	0.1	2
Overall tape thickness	T	0.1	0.28
Tape width	W	0.3	12
Reel width	W1	1	18
Qty. Per Reel (pcs)	5000		

## IMPORTANT NOTES AND DISCLAIMER

1. **ROHS COMPLIANCE:** The levels of RoHS restricted materials in this product are below the maximum concentration values (also referred to as the threshold limits) permitted for such substances, or are used in an exempted application, in accordance with EU RoHS Directive (EU) 2015/863 EC (RoHS3). RoHS Test Report for this product can be obtained at Download Center.
2. **REACH COMPLIANCE:** REACH substances of high concern (SVHCs) information is available for this product. Since the European Chemical Agency (ECHA) has published notice of their intent to frequently revise the SVHC listing for the foreseeable future, REACH Test Report for this product can be obtained at Download Center.
3. All Product parametric performance is indicated in the Electrical Characteristics for the listed herein test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.
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