

SPECIFICATION SHEET NO.	S1025 – DSK22LL000S020	
ORIGINAL MFG/PART NO.	 LGE Diodes/DSK22L-L	
NEXTGEN PART CODE	DSK22LL000S020	Indicate This Code For <a href="#">RFQ</a> /Order
DATE	Oct. 25, 2025	
REVISION	A5	Updated With Most Recent Data
DESCRIPTION AND MAIN PARAMETRICS	<p>SMD Schottky Rectifiers 2 Pads, Case SOD-123FL, DSK2L L Series,            Forward Rectified Current (IAV) 2.0A Max.            Repetitive Peak Reverse Voltage (VRRM) 20V Max.            RMS Voltage (VRMS) 14V Max.            Operating Junction Temperature Range (TJ ) -65°C ~+125°C            Package in Tape/Reel, 3000pcs/Reel            RoHS/RoHS III compliant, RoHS Annex III lead Exemption (Exempt per RoHS EU 2015/863) and Halogen Free (HF)</p>	
CUSTOMER		
CUSTOMER PART NUMBER		
CROSS REF. PART NUMBER		
MEMO		

VENDOR APPROVE		
Issued/Checked/Approved		
		
Effective Date: Oct. 25, 2025		

CUSTOMER APPROVE	
Date:	

## MAIN FEATURE

- Low Profile Surface Mounted Application in Order to Optimize Board Space
- Low Power Loss
- High Efficiency.
- High Current Capability
- Low Forward Voltage Drop.
- Ultra High-speed Switching
- Lead-free Parts Meet Environmental Standards Of WEEE 2002/96/EC
- 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 SMD Application

## ELECTRICAL CHARACTERISTICS

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

HOW TO ORDER

- Please Follow Up Part Code Guide And Indicate NextGen Part Code [DSK22LL000S020](#) For RFQ and Order.

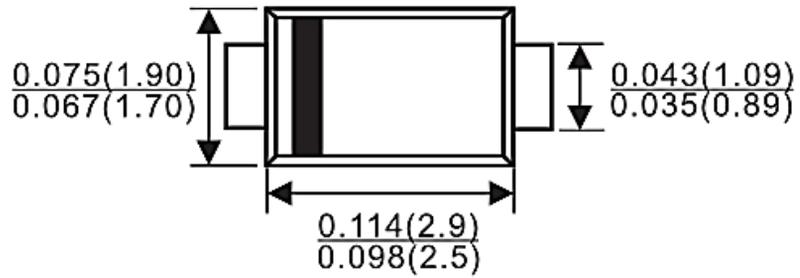
PART CODE GUIDE

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

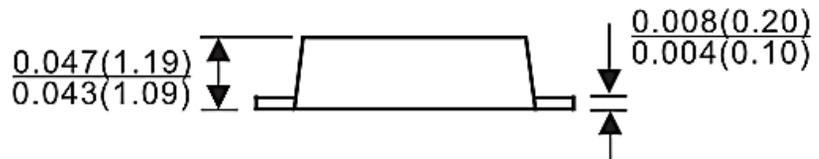
CODE	NAME	KEY SPECIFICATION OPTION
DSK2	Product Series Code	SMD Schottky Rectifier, DSK2L L Series, Forward Rectified Current 2.0A
2	Max. Repetitive Peak Reverse Voltage Code	2: 20V ; 4: 40V ; 6: 60V.; 10: 100V
LL000S	Internal Control Code	Letter A~Z, a-z or Digits (0-9)
020	Max. DC Blocking Voltage Code	020: 20V; 040: 40V; 060: 60V; 100: 100V
XX	Special/Custom Parameters	Blank: N/A; XX: Letter A~Z, a~z or digits (0~9) for Special/Custom Parameters

DIMENSION -- Unit: Inch (mm), Case SOD-123FL Outline

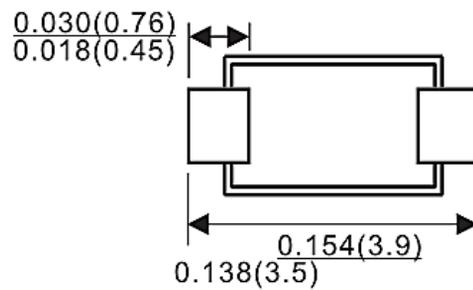
Top View



Side View



Bottom View



**MECHANICAL CHARACTERISTICS**

CASE	TERMINALS	POLARITY	MOUNTING POSITION	WEIGHT
JEDEC SOD-123FL Molded Plastic Body Over Passivated Chip	Solder Plated, Solderable Per J-STD-002B And JESD22-B102D	Laser Band Denotes Cathode End	Any	0.017 Gram

**MAX. RATINGS & ELECTRICAL CHARACTERISTICS**

- Ratings at 25 °C ambient temperature unless otherwise specified.

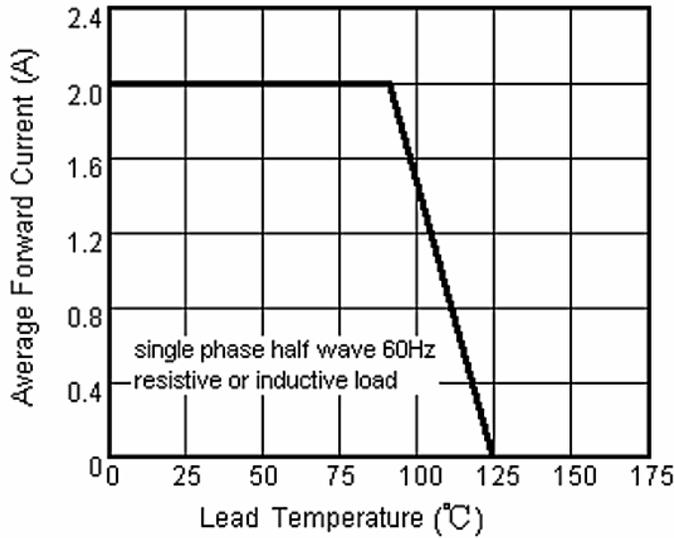
PARAMETER	CONDITION	SYMBOL	VALUE			UNITS
			MIN.	TYP.	MAX.	
Maximum Average Forward Rectified Current		$I_{AV}$			2.0	A
Peak Forward Surge Current	8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC Method)	$I_{FSM}$			40	A
Operating Junction Temperature Range	@ $V_{RRM}$ 20V/40V/ 60V	$T_J$	-65		+125	°C
	@ $V_{RRM}$ 100V		-65		+150	
Storage Temperature Range		$T_{STG}$	-65		+150	°C

ELECTRICAL CHARACTERISTICS - Ta=25°C unless otherwise specified

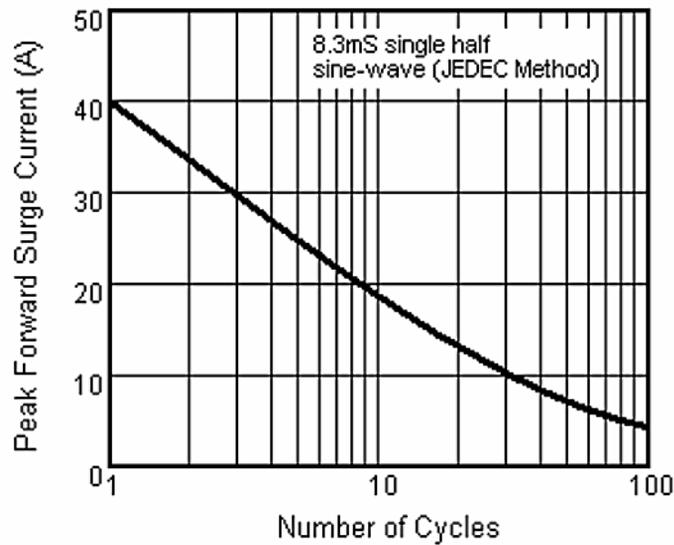
PART CODE	Max. Repetitive Peak Reverse Voltage	Max. RMS Voltage	Max. DC Blocking Voltage	Max. Forward Voltage @ 2.0A	Max. DC Reverse Current @ Rated DC Blocking Voltage		Typical Junction Capacitance (Note 1)	M a r k i n g  L i s t
					@ TA= 25 °C	@ TA= 100 °C		
					V <sub>RRM</sub>	V <sub>RMS</sub>		
	V	V	V	V	mA	pF		
<a href="#">DSK22LL000S020</a>	20	14	20	0.40	0.5	10	220	K22L
DSK24LL000S040	40	28	40	0.45	0.5	10	220	K24L
DSK26LL000S060	60	42	60	0.55	0.5	10	80	K26L
DSK210LL00S100	100	70	100	0.75	0.5	5.0	80	K210L

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

**Fig.1 Forward Current Derating Curve**

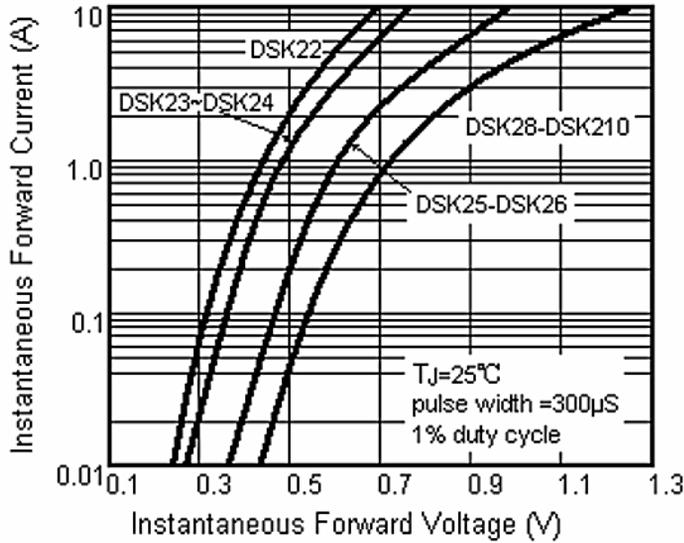


**Fig.2 Maximum Non-Repetitive Peak Forward Surge Current**

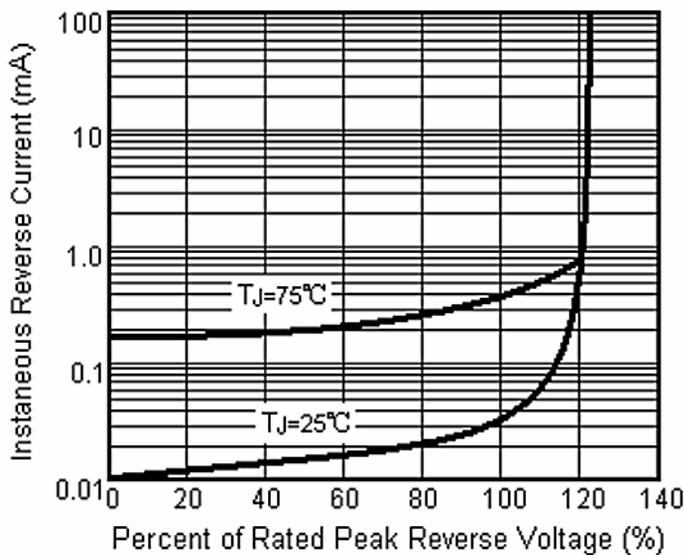


RATINGS AND CHARACTERISTICS CURVES- For Reference Only, Ta=25°C Unless Otherwise Specified.

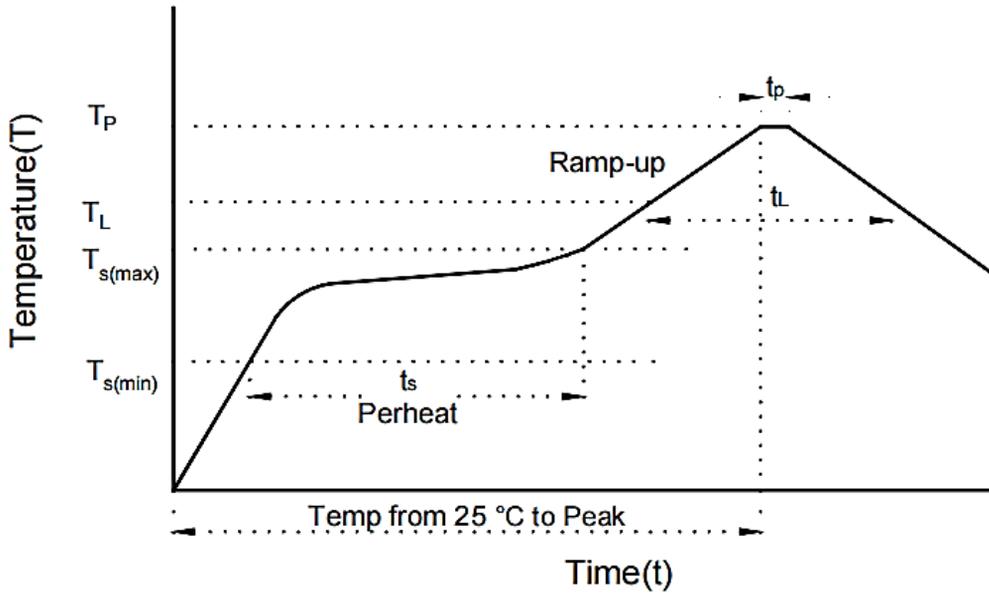
**Fig.3 Typical Instantaneous Forward Characteristics**



**Fig.4 Typical Reverse Characteristics**

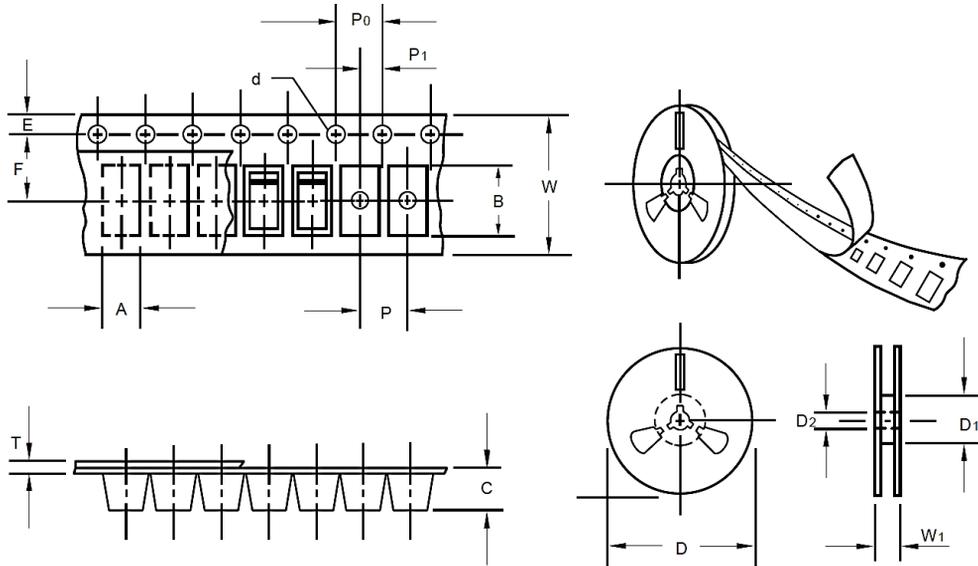


SUGGESTED REFLOW PROFILE - For Reference Only



PROFILE FEATURE		PB-FREE ASSEMBLY
Average Ramp-up Rate ( $T_L$ Max to $T_p$ )		3°C/second Max
Preheat	Temperature Min ( $T_s$ Min.)	150°C
	Temperature Max ( $T_s$ Max.)	200°C
	Time ( $t_s$ Min. to $t_s$ Max.)	60 ~ 180 seconds
Time maintained above	Temperature ( $T_l$ )	217°C
	Time ( $t_l$ )	60 ~ 150 seconds
Peak/Classification Temperature ( $T_p$ )		260 °C
Time within 5°C of actual Peak Temperature ( $t_p$ )		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	SOD-123FL
Carrier width	A	0.1	2.1
Carrier Length	B	0.1	4.0
Carrier Depth	C	0.1	1.60
Sprocket hole	d	0.05	1.55
7" Reel outside diameter	D	2	178
7" Reel inner diameter	D1	Min.	50.0
Feed hole diameter	D2	0.5	13
Sprocket hole position	E	0.1	1.75
Punch hole position	F	0.1	3.5
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	0.25
Tape width	W	0.3	8.15
Reel width	W1	1	10.5
Qty. Per Reel (pcs)		3000	

## 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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