



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volts CURRENT 1 A

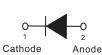
FEATURES

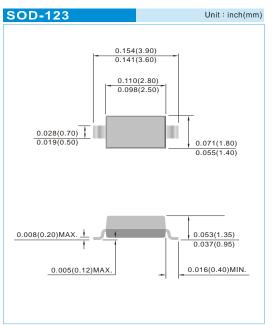
- Guard Ring Die Construction for Transient Protection
- · Low Power Loss, Hgih Efficiency
- · High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- For Use in Low Voltage, High Frequency inverters, Free Wheeling, and Polarity Protection Application
- Lead free in comply with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOD-123. Plastic
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: 0.0003 ounce, 0.0103 gram
- Polarity : Color band cathode
- Marking: 40L







MAXIMUM RATINGS@TA=25°C UNLESS OTHERWISE SPECIFIED

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

PARAMETER	SYMBOL	VALUE	UNIT
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage @ I _R =1.0mA	V _{RRM} V _{RWM} V _R	40	V
RMS Reverse Voltage	VR(RMS)	28	V
Average Rectified Output Current	l _o	1	Α
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	25	Α
Power Dissipation (Note 1)	P _D	450	mW
Typical Thermal Resistance Junction to Ambient (Note 1)	R _{eJA}	222	°C/W
Operating and Storage Temperature Range	T_{J} , T_{STG}	-65 to + 125	°C

Notes: 1. FR-4 Board = $70 \times 60 \times 1$ mm.

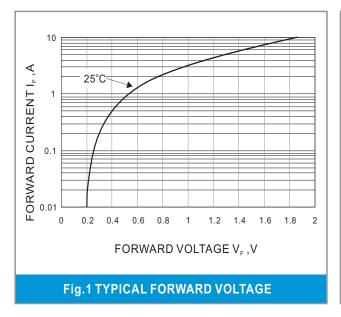


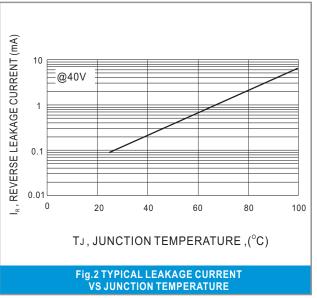


ELECTRICAL CHARACTERISTICS (TA= 25°C unless otherwise noted)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage (Note 2)	V(BR)R	I R=1 mA	40	-	-	V
Forward Voltage	VF	I F=0.1A I F=1A I F=3A	- - -		0.32 0.45 0.75	V
Reverse Leakage Current (Note 2)	l R	VR=40V,TA=25°C VR=40V,TA=100°C VR=4V,TA=25°C VR=4V,TA=100°C VR=6V,TA=25°C VR=6V,TA=25°C VR=6V,TA=100°C		- 8.5 10 1 15	220 - 50 - 75 -	μΑ mA μΑ mA μΑ mA
Total Capacitance	Ст	VR=4V,f=1MHz	-	50	-	pF

Notes: 2. Short duration pulse test used to minmize self-heating effect.

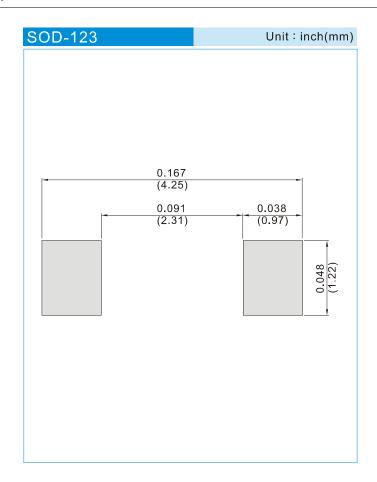








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 10K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

SS1040L_R1_00001 SS1040L_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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