



SS1040L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE 40 Volt

CURRENT 1 A

SOD-123

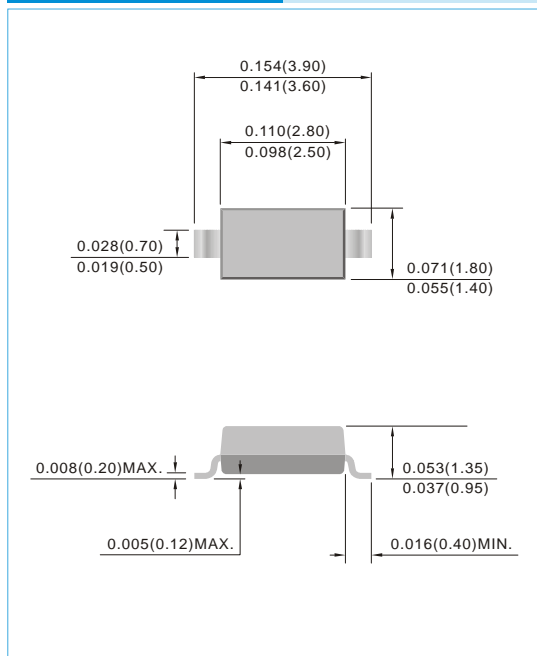
Unit : inch(mm)

FEATURES

- Guard Ring Die Construction for Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Lead free in compliance 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 ounces, 0.0103 grams
- 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	V_{RRM} V_{RWM} V_R	40	V
RMS Reverse Voltage	$V_R(RMS)$	28	V
Average Rectified Output Current	I_o	1	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	25	A
Power Dissipation (Note 1)	P_D	450	mW
Typical Thermal Resistance Junction to Ambient (Note 1)	$R_{\theta JA}$	222	°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +125	°C

Notes : 1. FR-4 Board = 70 x 60 x 1mm.



SS1040L

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

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	I _R =1mA	40	-	-	V
Forward Voltage	V _F	I _F =0.1A	-	-	0.32	V
		I _F =1A	-	-	0.45	
		I _F =3A	-	-	0.75	
Reverse Leakage Current (Note 2)	I _R	V _R =40V, T _A =25°C	-	-	220	μA
		V _R =40V, T _A =100°C	-	8.5	-	mA
		V _R =4V, T _A =25°C	-	10	50	μA
		V _R =4V, T _A =100°C	-	1	-	mA
		V _R =6V, T _A =25°C	-	15	75	μA
		V _R =6V, T _A =100°C	-	1.5	-	mA
Total Capacitance	C _T	V _R =4V, f=1MHz	-	50	-	pF

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



SS1040L

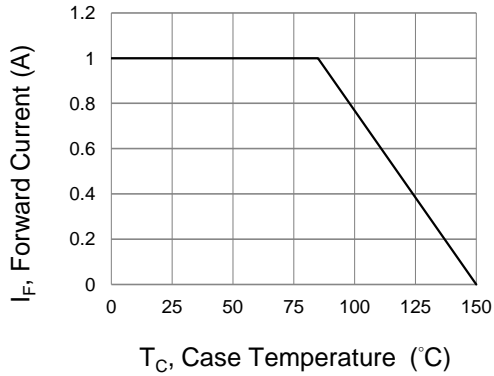


Fig.1 Forward Current Derating Curve

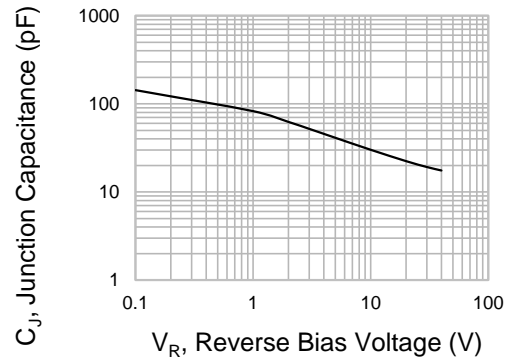


Fig.2 Typical Junction Capacitance

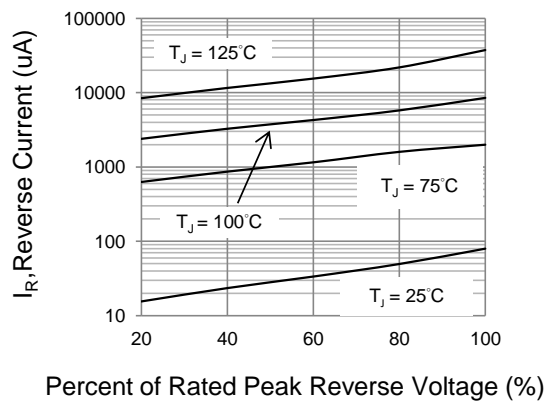


Fig.3 Typical Reverse Characteristics

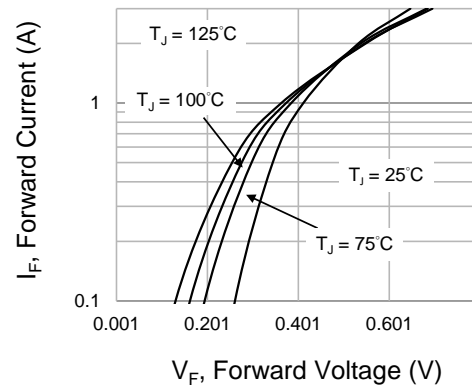


Fig.4 Typical Forward Characteristics

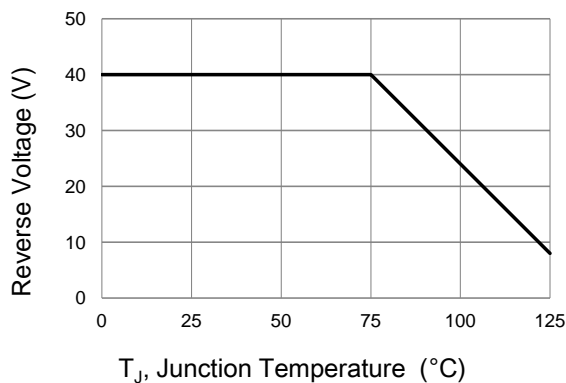


Fig.5 Operating Temperature Derating Curve

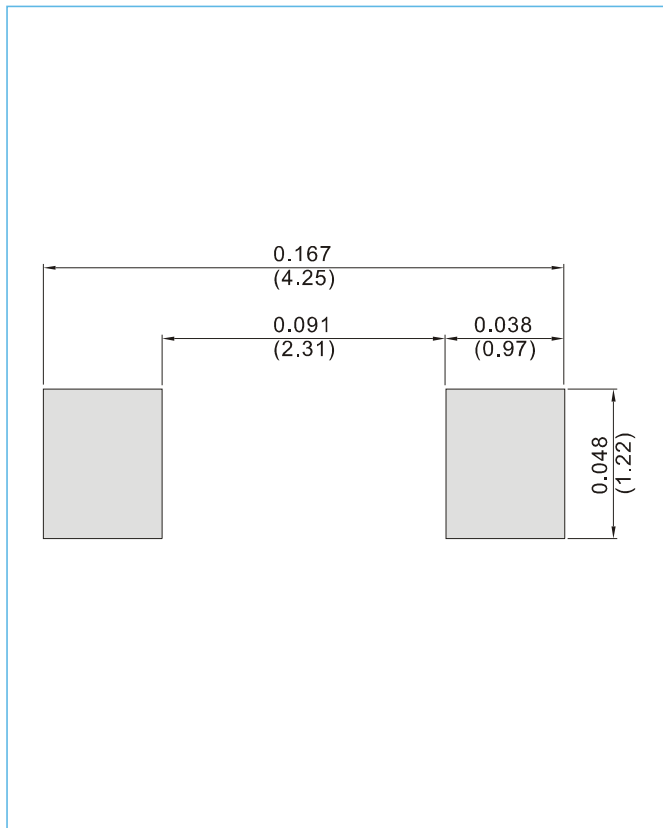


SS1040L

MOUNTING PAD LAYOUT

SOD-123

Unit : inch(mm)



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel



SS1040L

Part No_packing code_Version

SS1040L_R1_00001

SS1040L_R2_00001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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