

SR52F SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

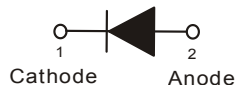
VOLTAGE	20-60 Volts	CURRENT	5 Amperes
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FEATURES

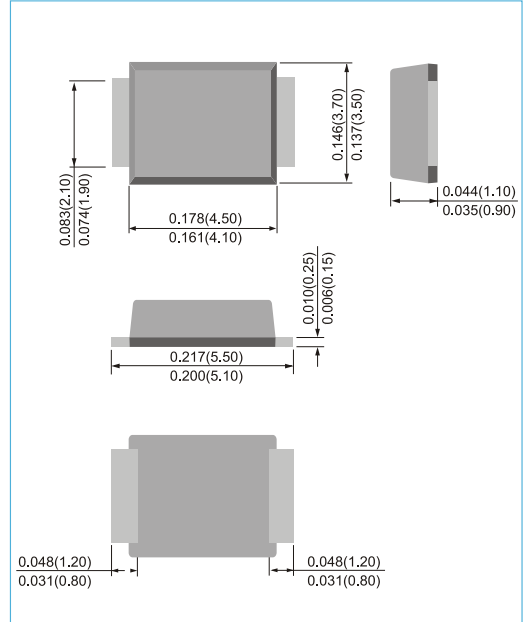
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Metal to silicon rectifier, majority carrier conduction
- Low power loss, high efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0018 ounces, 0.05 grams
- Polarity : Color band denotes cathode end



SMBF Unit : inch(mm)



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

PARAMETER	SYMBOL	SR52F	SR53F	SR54F	SR55F	SR56F	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
RMS Voltage	V _{RMS}	14	21	28	35	42	V
DC Blocking Voltage	V _R	20	30	40	50	60	V
Average Forward Current	I _{F(AV)}	5.0					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	100					A
Forward Voltage at 5.0A	V _F	0.55			0.7		V
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C	I _R	0.1					mA
Typical Junction capacitance V _R =4V,1MHz	C _J	235			190		pF
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 2)	R _{θJL} R _{θJA}	17 135					°C / W
Operating Junction Temperature and Storage Temperature Range	T _J ,T _{STG}	-55 to +150					°C

NOTES :

- 1.Mounted on an FR4 PCB, single-sided copper, with 48cm²copper pad area.
- 2.Mounted on an FR4 PCB, single-sided copper, mini pad.

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RATING AND CHARACTERISTIC CURVES

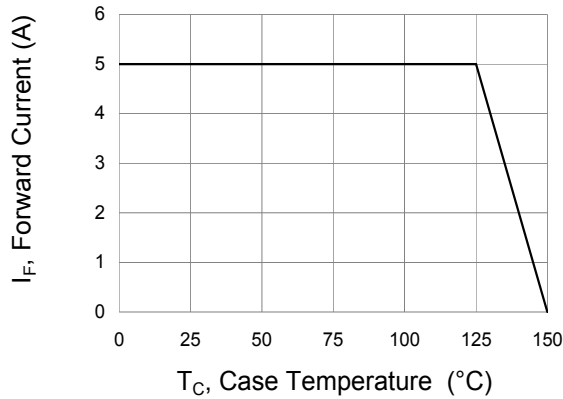


Fig.1 Forward Current Derating Curve

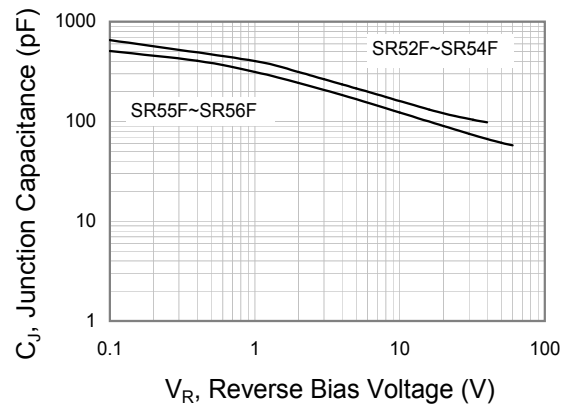


Fig.2 Typical Junction Capacitance

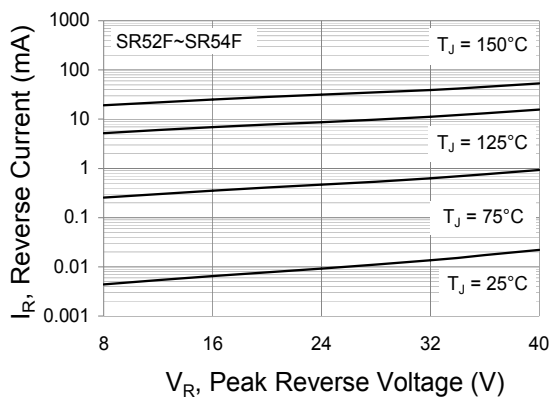


Fig.3 Typical Reverse Characteristics

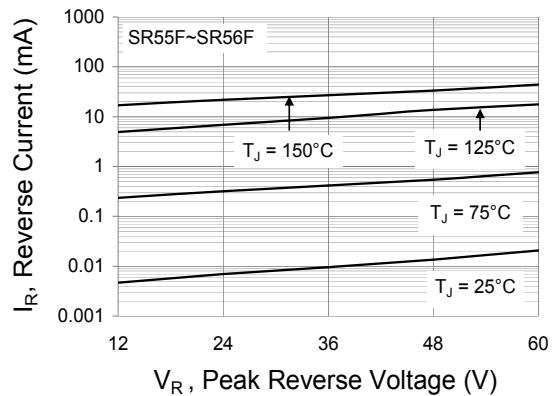


Fig.4 Typical Reverse Characteristics

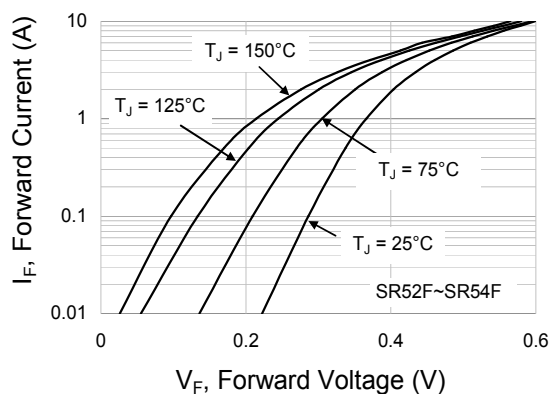


Fig.5 Typical Forward Characteristics

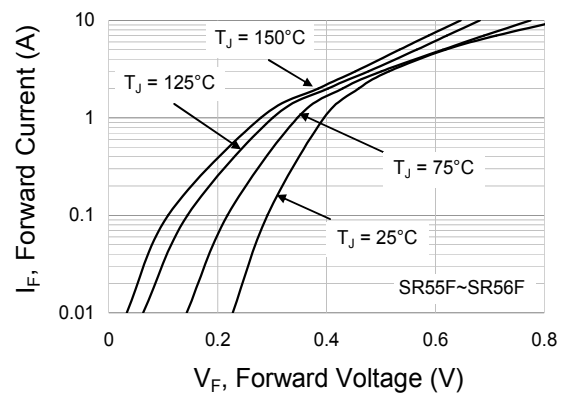


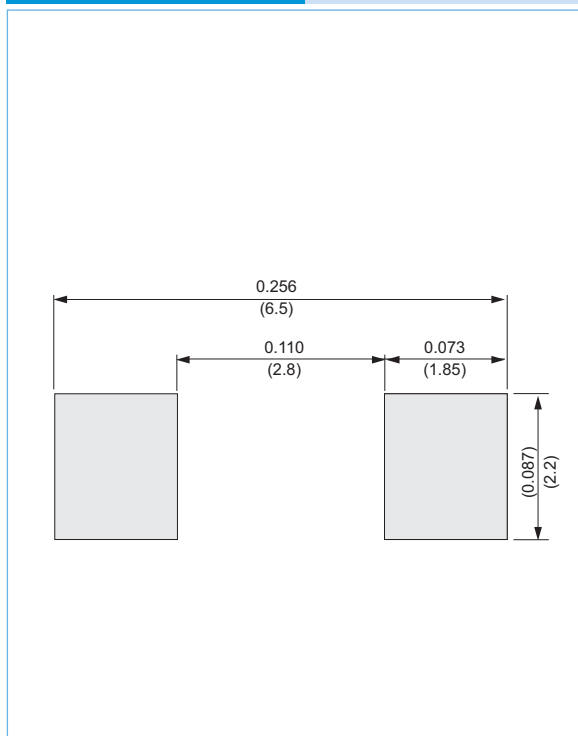
Fig.6 Typical Forward Characteristics

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MOUNTING PAD LAYOUT

SMBF

Unit:inch(mm)



ORDER INFORMATION

- Packing information

T/R - 5K per 13" plastic Reel

LEGAL STATEMENT

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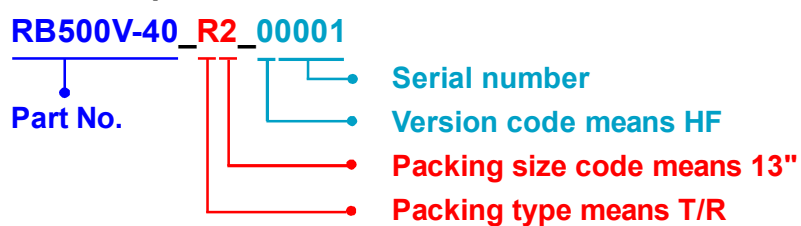
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Part No_packing code_Version

SR52F_R1_00001

SR52F_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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			



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