



SCHOTTKY BARRIER RECTIFIER

VOLTAGE 20-40 Volts CURRENT 5 Amperes

FEATURES

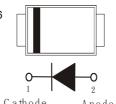
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- Built-in strain relief
- · Metal to silicon rectifier. majority carrier conduction
- · Low power loss, high efficiency
- · High surge capacity
- For use in low 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)

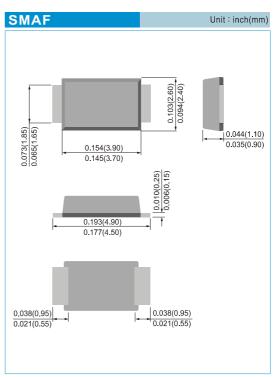
MECHANICAL DATA

Case: SMAF, Plastic

Terminals: Solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end Weight: 0.0011 ounces, 0.0328 grams





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

PARAMETER			SX52F	SX53F	SX54F	UNITS
Recurrent Peak Reverse Voltage			20	30	40	V
RMS Voltage	V _{RMS}	14	21	28	V	
DC Blocking Voltage	V _R	20	30	40	V	
Average Forward Current			5.0			А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)			100			А
Forward Voltage at 5.0A			0.54			V
DC Reverse Current at Rated DC Blocking Voltage T _J =25°C			100			μА
Typical Junction capacitance	V _R =10V,1MHz C _J			159		
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 1)			20 83			°C/W
Operating Junction Temperature and Storage Temperature Range			-55 to +150			°C

NOTES:

1.Mounted on 48cm² FR-4 PCB.





RATING AND CHARACTERISTIC CURVES

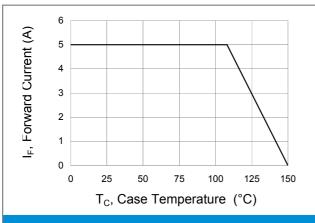


Fig.1 Forward Current Derating Curve

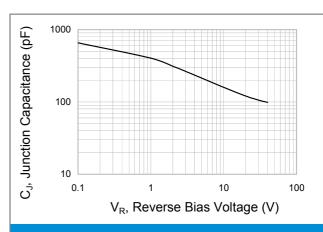


Fig.2 Typical Junction Capacitance

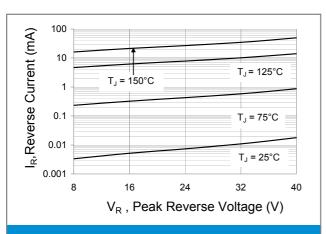


Fig.3 Typical Reverse Characteristics

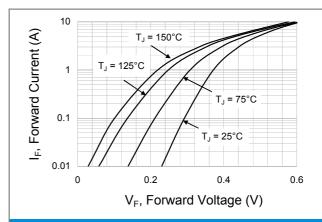
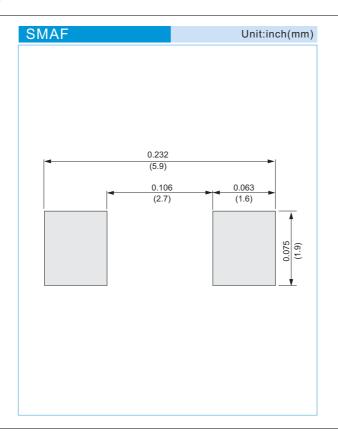


Fig.4 Typical Forward Characteristics





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

SX52F_R1_00001 SX52F_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	В	13"	2			
T/P	Т	26mm	X			
TRR	S	52mm	Υ			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			





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