



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

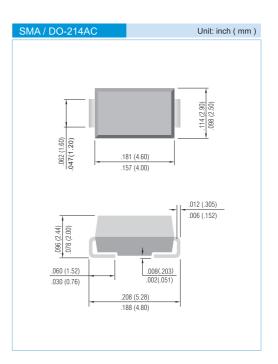
VOLTAGE 20 to 60 Volts CURRENT 3.0 Amperes

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

MECHANICAL DATA

- Case: JEDEC DO-214AC molded plastic
- Terminals:Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity: Color band denotes cathode end
- Standard packaging: 12mm tape (EIA-481)
- Weight: 0.0023 ounce, 0.0679 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	SX32	SX33	SX34	SX35	SX36	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	V
Maximum RMS Voltage	V _{RMS}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Current at T _L =75°C	I _{F(AV)}	3.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	80					А
Maximum Forward Voltage at 3.0A (Note 1)	V _F	0.5			0.75		٧
Maximum DC Reverse Current T _J =25°C at Rated DC Blocking Voltage T _J =100°C	I _R	0.2 20			0.1 20		mA
Typical Thermal Resistance (Note 2)	$R_{\theta JL} R_{\theta JA}$	20 75				°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to +125 -55 to +150			50	°C	

NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with 8.0mm^2 (.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

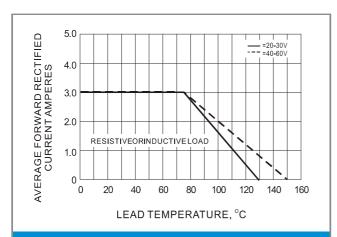


Fig.1- FORWARD CURRENT DERATING CURVE

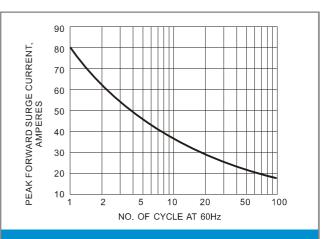


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

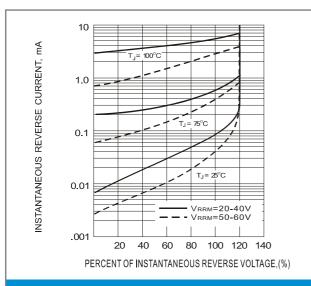


Fig.3- TYPICAL REVERSE CHARACTERISTICS

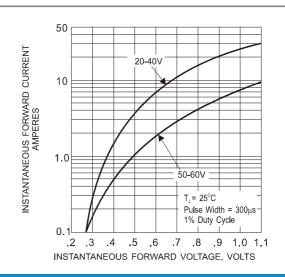


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

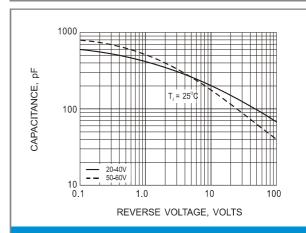
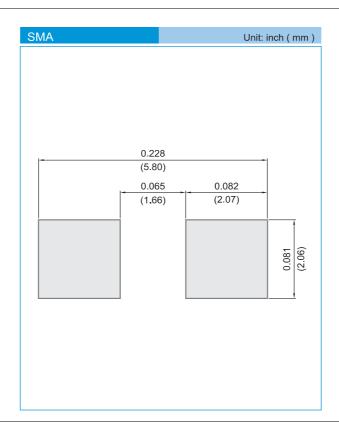


Fig.5- TYPICAL JUNCTION CAPACITANCE





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

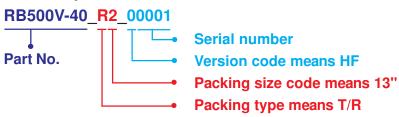
T/R - 7.5K per 13" plastic Reel

T/R - 1.8Kper 7" plastic Reel





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				

Part No_packing code_Version

SX32_R1_00001

SX32_R1_10001

SX32_R2_00001

SX32_R2_10001





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