



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

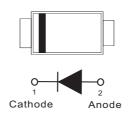
VOLTAGE 20 to 60 Volt CURRENT 3 Ampere

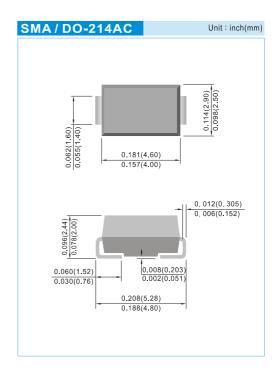
FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications in order to optimize board space
- · Low power loss, high efficiency
- · High surge capacity
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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 ounces, 0.0679 grams





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		I _{F(AV)}	3				Α	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}			80			А
Maximum Forward Voltage at 3A (Note 1)		V _F		0.5	0.75		75	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C T _J =100°C	I _R		0.2 20				mA
Typical Thermal Resistance	(Note 2) (Note 3)	$R_{_{\theta JA}}$	25 150			°C / W		
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to +125 -55 to +150			°C		

NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on a FR4 PCB, single-sided copper, with 100cm ² copper pad area.
- 3. Mounted on a FR4 PCB, single-sided copper, mini pad.





RATING AND CHARACTERISTIC CURVES

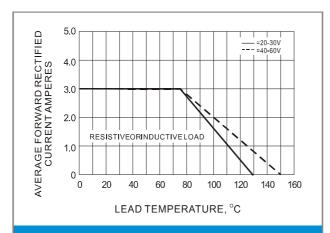


Fig.1- FORWARD CURRENT DERATING CURVE

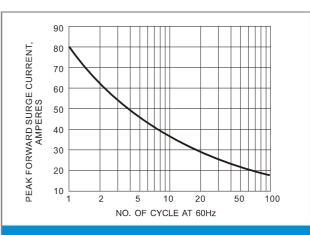


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

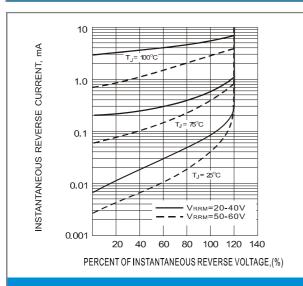


Fig.3- TYPICAL REVERSE CHARACTERISTICS

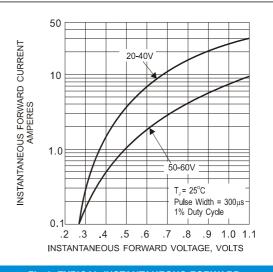


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

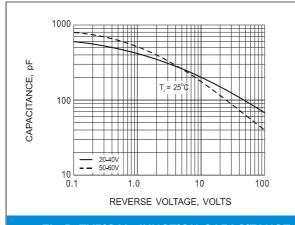


Fig.5- TYPICAL JUNCTION CAPACITANCE

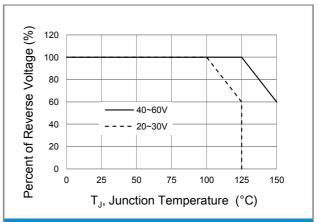
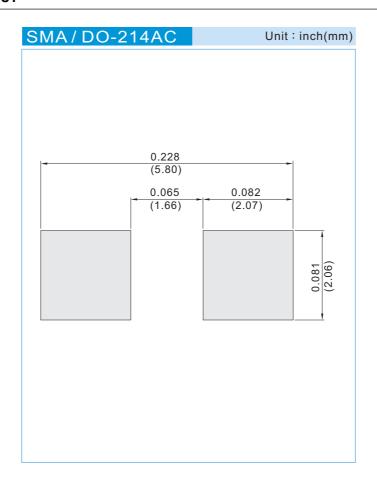


Fig.6- OPERATING TEMPERATURE DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 7.5K per 13" plastic Reel

T/R - 1.8K per 7" plastic Reel





Part No_packing code_Version

SX32_R1_00001 SX32_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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