SS32 THUR SS320

SS32 THUR SS320 Schottky Barrier Rectifiers

General description

3.0Amp Surface Mounted Schottky Barrier Rectifiers

FEATURES

- 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
- Pb free product are available : 99% Sn can meet Rohs environment substance directive request

MECHANICAL DATA

- Terminals:Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denotes positive end (cathode)

Maximum Ratings And Electrical Characteristics

P	IN	NI	IN	G
				100

PIN	DESCRIPTION				
1	Cathode				
2	Anode				



Top View Marking Code: SS32~SS320 Simplified outline SMA and symbol

Maximum Ratings And Electrical Characteristics											
Parameter	Symbols	SS32	SS34	SS34A	SS36	SS38	SS310	SS312	SS315	SS320	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	20	40	45	60	80	100	120	150	200	V
Maximum RMS voltage	Vrms	14	28	31.5	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	V _{DC}	20	40	45	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	I _{F(AV)}		1			3.0					A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	Ifsm	80					A				
Max Instantaneous Forward Voltage at 3 A	VF	0.6 0.75		0.75		0.9		0.95		V	
Maximum DC Reverse Current $T_a = 25^{\circ}C$ atRated DC Reverse Voltage $T_a = 100^{\circ}C$	I _R	0.5 0.3 5 3				mA					
Typical Junction Capacitance (1)	Cj	450 400		450 400			pF				
Typical Thermal Resistance (2)	R _{θJA}	70			°C/W						
Operating Junction Temperature Range	Tj	-55 ~ +150			°C						
Storage Temperature Range	Tstg	-55 ~ +150			°C						

(1) Measured at 1 MHz and applied reverse voltage of 4 V D.C

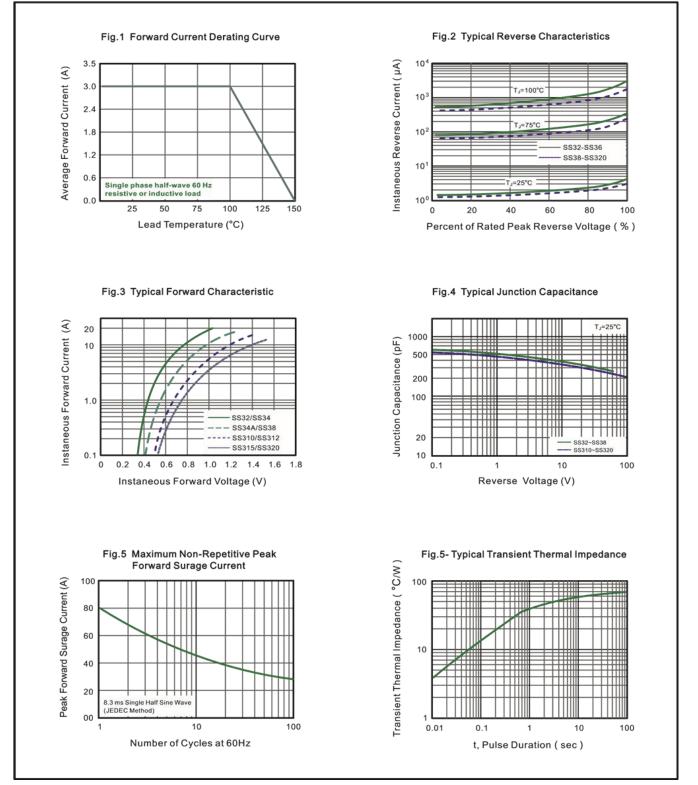
(2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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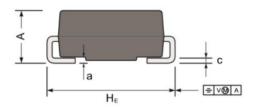
Rating And Characteristic Curves

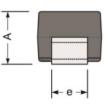


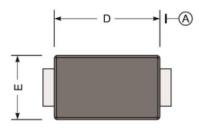


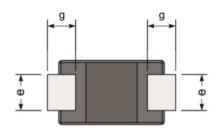


SMA PACKAGE OUTLINE



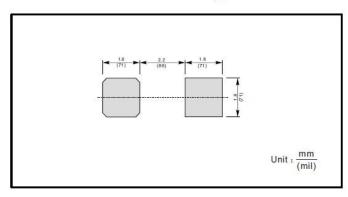






UNIT		Α	D	E	Ηε	С	е	g	а
mm	max	2.5	4.5	2.8	5.3	0.31	1.7	1.5	0.3
	min	1.9	3.9	2.3	4.7	0.15	1.3	0.76	0.5
mil	max	98	181	110	208	12	67	59	10
	min	75	153	91	185	6	51	30	

The recommended mounting pad size



Marking

Type number	Marking code				
SS32	SS32				
SS34	SS34				
SS34A	SS34A				
SS36	SS36				
SS38	SS38				
SS310	SS310				
SS312	SS312				
SS315	SS315				
SS320	SS320				

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