

FEATURES

- · For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- High efficiency
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

• Case: SMA



Top View Marking Code: US2D Simplified outline SMA and symbol

PINNING

PIN	DESCRIPTION				
1	Cathode				
2	Anode				

Maximum Ratings and Electrical characteristics

Parameter	Symbols	US2D	Units	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200		
Maximum RMS voltage	V_{RMS}	140	V	
Maximum DC Blocking Voltage	V _{DC}	200		
Maximum Average Forward Rectified Current at T_c = 125 $^{\circ}$ C	I _{F(AV)}	2	А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	50	А	
Maximum Instantaneous Forward Voltage at 2 A	V _F	1.0	V	
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100	μА	
Maximum Reverse Recovery Time (1)	t _{rr}	50	ns	
Typical Thermal Resistance (2)	$R_{ heta JA} \ R_{ heta JC}$	65 20	°C/W	
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ +150	°C	

^(1) Measured with $I_{\scriptscriptstyle F}$ = 0.5 A, $I_{\scriptscriptstyle R}$ = 1 A, $I_{\scriptscriptstyle rr}$ = 0.25 A.

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



Fig.1 Forward Current Derating Curve

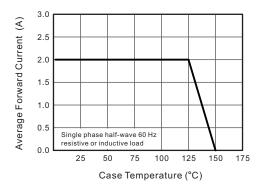


Fig.3 Typical Forward Characteristics

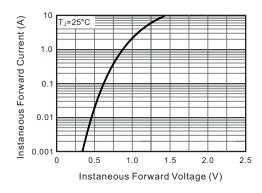


Fig.2 Typical Reverse Characteristics

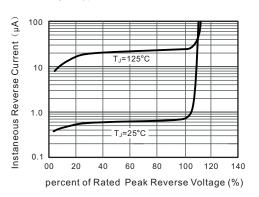
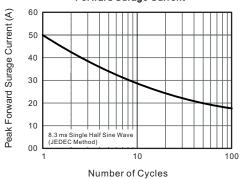


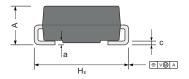
Fig.4 Maximum Non-Repetitive Peak Forward Surage Current



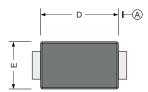


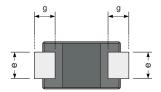
PACKAGE OUTLINE Plastic surface mounted package; 2 leads

SMA



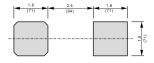






UNIT		Α	D	E	H _E	С	е	g	а
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
mm	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	40
11111	min	75	157	91	185	6	51	35	12

The recommended mounting pad size



 $\mathsf{Unit}: \frac{\mathsf{mm}}{(\mathsf{mil})}$