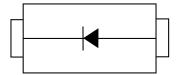


Feature

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Juntion
- > Easy to pick and place
- ➤ Lead free in comply with EU RoHS 2011/65/EU directives



Mechanical Characteristics

Case: SMA

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

> Approx. Weight: 0.055g /0.002oz

Absolute maximum rating@25℃

Parameter	Symbol	M1	M2	M3	M4	M5	M6	M7	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}				1				А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30					A		
Maximum Instantaneous Forward Voltage at 1A	VF	1.1					V		
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta =125 °C	I _R	5 50					μА		
Typical Junction Capacitance (1)	C _j	15					pF		
Typical Thermal Resistance (2)	R _{0JA}	75					°C /W		
Operating and Storage Temperature Range	T_j , T_{stg}	-55 ~ +150					°C		

- (1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- (2) P.C.B mounted with 1.0×1.0"(2.54*2.54 cm) copper pad areas.

Typical Characteristics

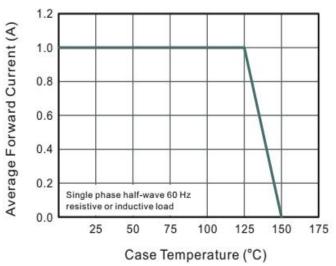
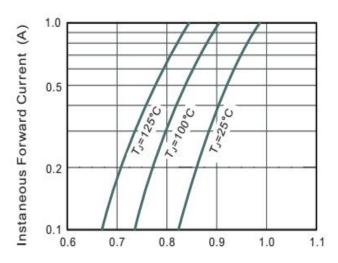
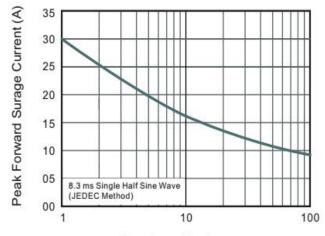


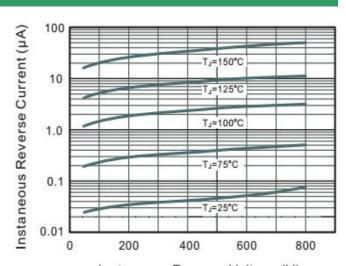
Fig.1 Forward Current Derating Curve



Instaneous Forward Voltage (V)
Fig.3 Typical Forward Characteristic



Number of Cycles
Fig.5 Maximum Non-Repetitive Peak
Forward Surage Current



Instaneous Reverse Voltage (V)
Fig.2 Typical Instaneous Reverse Characteristics

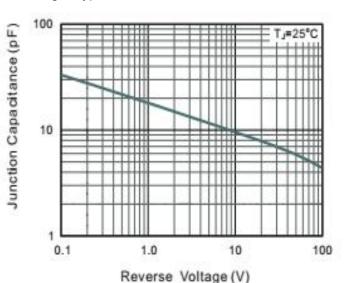
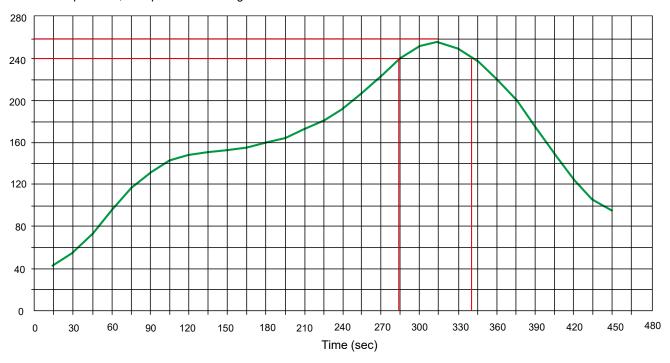


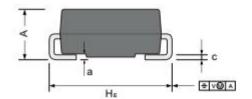
Fig.4 Typical Junction Capacitance

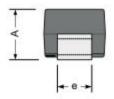
Solder Reflow Recommendation

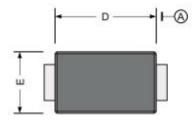
Peak Temp=257℃, Ramp Rate=0.802deg. ℃/sec

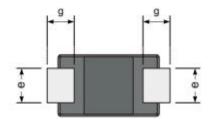


Product dimension (SMA)



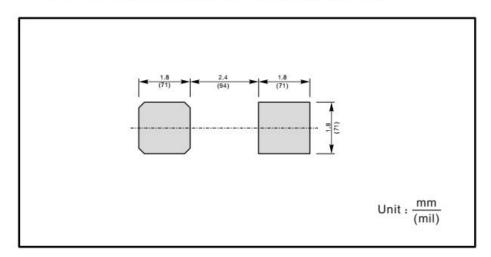






UNIT	0 8	Α	D	E	HE	С	е	g	а
mm -	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size



Marking information

Device	Marking
M1	M1
M2	M2
M3	M3
M4	M4
M5	M5
M6	M6
M7	M7

Ordering information

Device	Package	Reel	Shipping
M1-M7	SMA (Pb-Free)	7"	2000/ Tape & Reel
M1-M7	SMA (Pb-Free)	13"	5000/ Tape & Reel

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