Suntan_® Su_®

ER2A THRU ER2J

SURFACE MOUNT SUPER FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Ampere

FEATURES

- ◆For surface mounted applications
- ◆Low profile package
- ♦ Glass Passivated Chip Junction
- ◆ Superfast reverse recovery time
- ◆Lead free in comply with EU RoHS 2011/65/EU directives

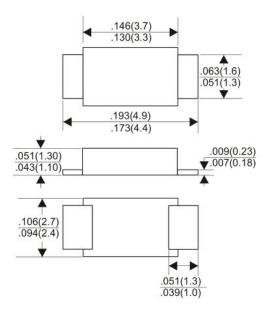
Mechanical Data

- ♦Case: SMAF
- ◆ Terminals: Solderable per MIL-STD-750,

Method 2026

◆Approx.Weight: 27mg / 0.00095oz

SMAF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%

Single phase, half wave, 60Hz, resistive or inductive		1			, ,		l l		ED01	
PARAMETER		SYMBOL	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	UNIT
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS Voltage		Vrms	35	70	105	140	210	280	420	VOLTS
Maximum DC Blocking Voltage		Vdc	50	100	150	200	300	400	600	VOLTS
Maximum Average Forward Rectified Current At TA =125 $^{\circ}\!\!\mathbb{C}$		I(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load		IFSM	50						Amps	
Maximum instantaneous forward voltage per at 2.0A		V_{F}	1 1.25 1.70				1.70	VOLTS		
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃		5.0							- uA
	T _A =125℃	- IR	100							
Maximum Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A		t _{rr}	30						nS	
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		CJ	30						pF	
Typical Thermal Resistance		Reja	65							- °C∕W
		Rejl	20							
Operating Junction Temperature		TJ	-55 to +150							°C
Storage Temperature Rang		Тѕтс	-55 to +150							°C

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $2.0 \times 2.0''$ (5.0×5.0 cm) copper pad areas.

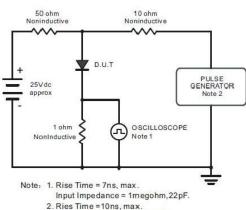
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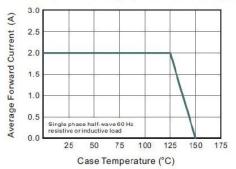
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RATING AND CHARACTERISTIC CURVES ER2A THRU ER2J

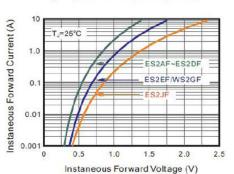


Ries Time = 10ns, max. Source Impedance = 50 ohms.

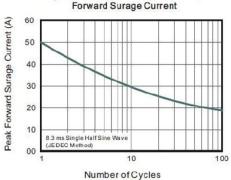












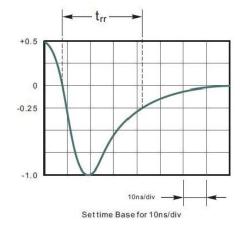
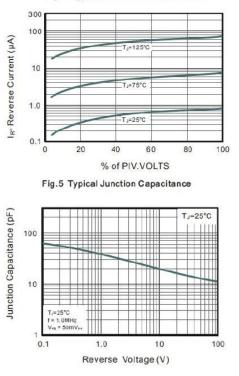


Fig.3 Typical Reverse Characteristics



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.