

Surface Mount Super Fast Recovery Rectifier

Surface mount Super rast nectivery nectiner					
Voltage	50~400 V	Current	2 A]	
Features					
 High tempera as found in ot Glass passiva Easy pick and Plastic packa Classification Lead free in c 	d place ge has Underwrite	ly bonded-no c icted rectifiers ers Laboratory U RoHS 2.0	ompression co Flammability	•	

Mechanical Data

- Case : Molded plastic, SMAF-C
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0012 ounces, 0.034 grams

<section-header>SMAF-C

Maximum Ratings and Thermal Characteristics (T_A = 25°C unless otherwise noted)

PARAMETER	SYMBOL	ERT2AAFC	ERT2BAFC	ERT2CAFC	ERT2DAFC	ERT2EAFC	ERT2GAFC	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	150	200	300	400	v
Maximum RMS Voltage	VRMS	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	VR	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current	IF(AV)	2					A	
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	I _{FSM}	50				A		
Instantaneous Forward Voltage at 2A	VF	0.95 1.25				25	V	
Reverse Current	IR	1				uA		
Typical Junction Capacitance Measured at 1 MHz And Applied $V_{R} = 4V$	CJ	30 25				5	pF	
Reverse Recovery Time ^(Note 1)	T _{RR}	25					ns	
Typical Thermal Resistance (Note 2) (Note 3)	R _{ejl} Reja	20 150				°C/W		
Operating Junction Temperature Range	TJ	-55 to +150				٥C		
Storage Temperature Range	Тѕтс	-55 to +150					°C	

NOTES:

1. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Recover to 0.25A

2. Mounted on a FR4 PCB, single-sided copper, with 10cm*10cm copper pad area

3. Mounted on a FR4 PCB, single-sided copper, standard footprint



TYPICAL CHARACTERISTIC CURVES

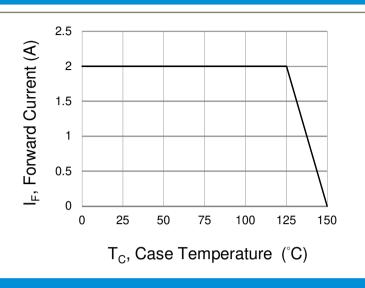


Fig.1 Forward Current Derating Curve

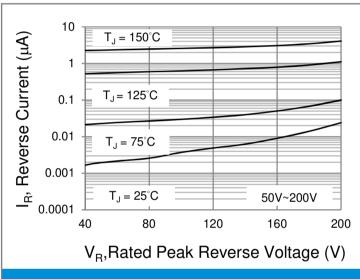
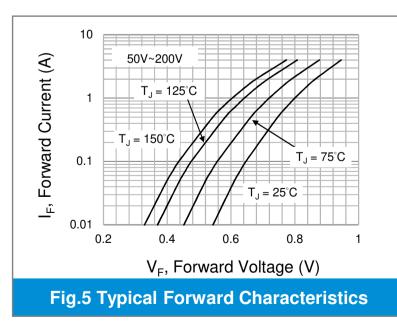


Fig.3 Typical Reverse Characteristics



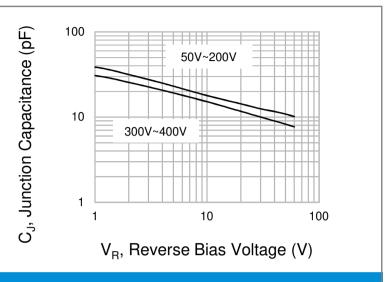


Fig.2 Typical Junction Capacitance

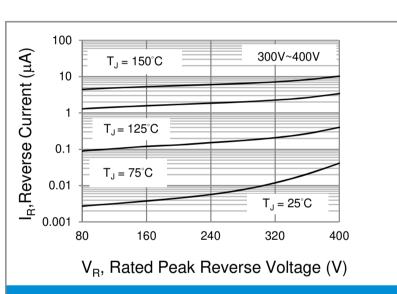
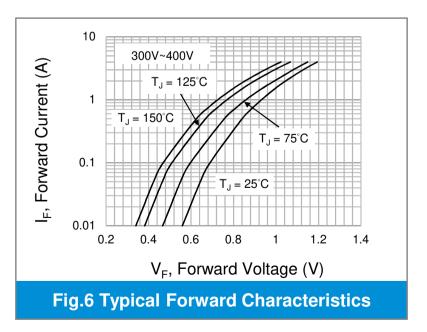


Fig.4 Typical Reverse Characteristics

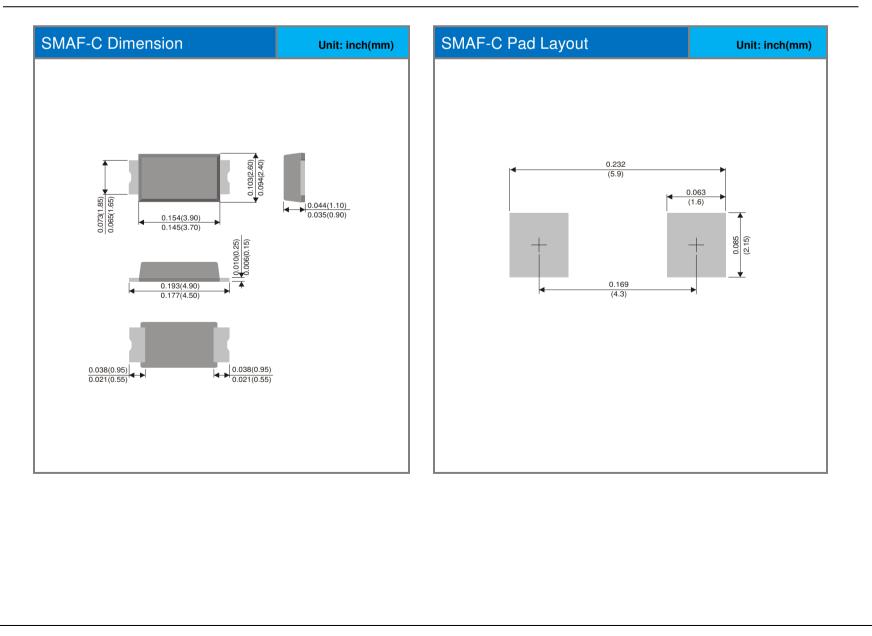




Part No. Packing Code Version

Part No. Packing Code	Package Type	Packing Type	Marking	Version
ERT2AAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2A	Halogen free
ERT2BAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2B	Halogen free
ERT2CAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2C	Halogen free
ERT2DAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2D	Halogen free
ERT2EAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2E	Halogen free
ERT2GAFC_R1_00001	SMAF-C	3K pcs / 7" reel	ERT2G	Halogen free

Packaging Information & Mounting Pad Layout





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