

### Surface Mount Super Fast Recovery Rectifier

Surface mount Super rast nectivery nectiner					
Voltage	50~400 V	Current	2 A	]	
Features					
<ul> <li>High tempera as found in ot</li> <li>Glass passiva</li> <li>Easy pick and</li> <li>Plastic packa Classification</li> <li>Lead free in c</li> </ul>	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<sub>A</sub> = 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 <sub>FSM</sub>	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 <sup>(Note 1)</sup>	T <sub>RR</sub>	25					ns	
Typical Thermal Resistance (Note 2) (Note 3)	R <sub>ejl</sub> Reja	20 150				°C/W		
Operating Junction Temperature Range	TJ	-55 to +150				٥C		
Storage Temperature Range	Тѕтс	-55 to +150					°C	

### NOTES:

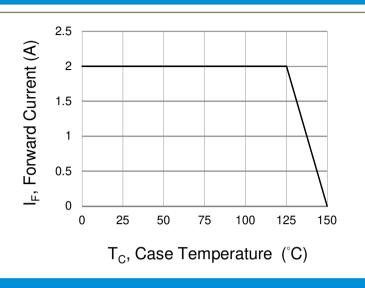
1. Reverse Recovery Test Conditions: I\_F=0.5A, I\_R=1A, Recover to 0.25A

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

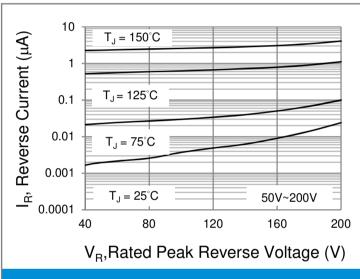
3. Mounted on a FR4 PCB, single-sided copper, standard footprint



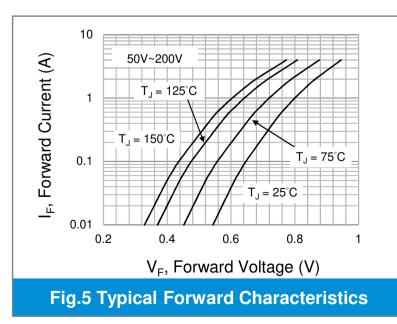
**TYPICAL CHARACTERISTIC CURVES** 

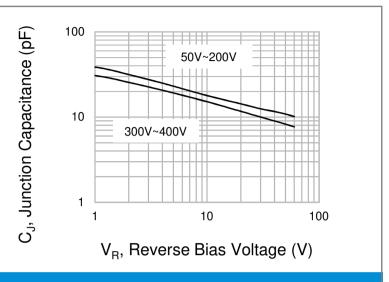


### Fig.1 Forward Current Derating Curve

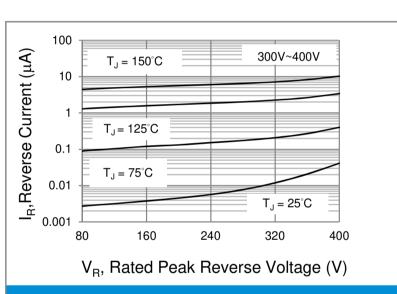


### **Fig.3 Typical Reverse Characteristics**

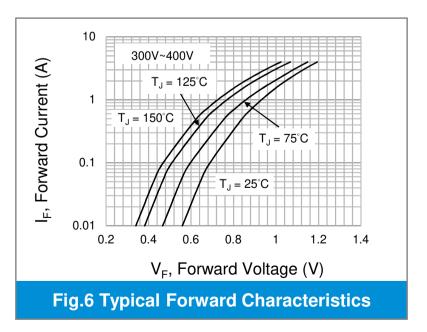




### **Fig.2 Typical Junction Capacitance**



### **Fig.4 Typical Reverse Characteristics**

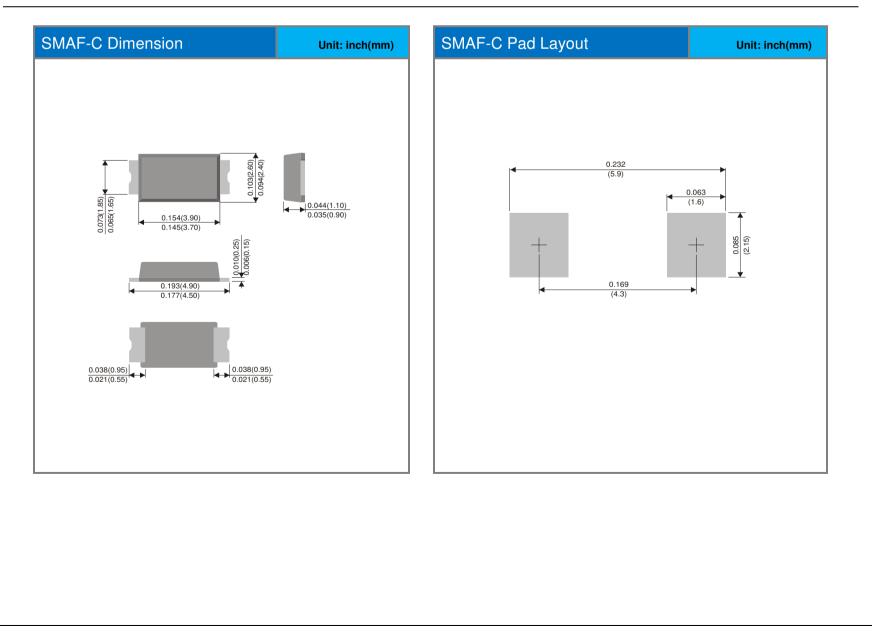




### Part No. Packing Code Version

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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