

Surface Mount Super Fast Recovery Rectifier

Voltage

50~400 V

Current

2 Δ

Features

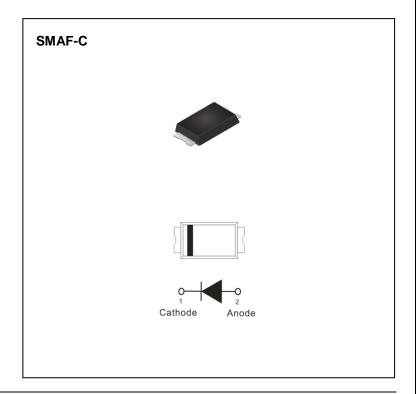
- For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression contacts as found in other diode-constructed rectifiers
- Glass passivated junction
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification94V-O
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

• Case : Molded plastic, SMAF-C

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

• Approx. Weight: 0.0012 ounces, 0.034 grams



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	V _{RMS}	35	70	105	140	210	280	V
Maximum DC Blocking Voltage	V _R	50	100	150	200	300	400	V
Maximum Average Forward Rectified Current	I _{F(AV)}	2			А			
Peak Forward Surge Current : 8.3 ms Single Half Sine-Wave Superimposed On Rated Load	IFSM	50				А		
Instantaneous Forward Voltage at 2A	V _F	0.95 1.25			V			
Reverse Current	I _R	1				uA		
Typical Junction Capacitance Measured at 1 MHz And Applied $V_R = 4V$	Сл	30 25			5	pF		
Reverse Recovery Time(Note 1)	T _{RR}	25				ns		
Typical Thermal Resistance (Note 2) (Note 3)	Røjl Røja	20 150				°C/W		
Operating Junction Temperature Range	TJ	-55 to +150				°C		
Storage Temperature Range	T _{STG}	-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

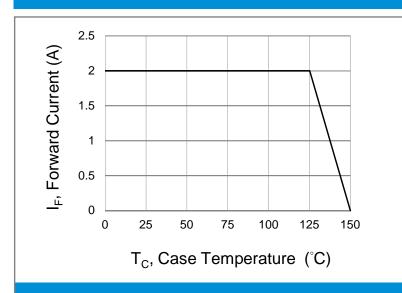


Fig.1 Forward Current Derating Curve

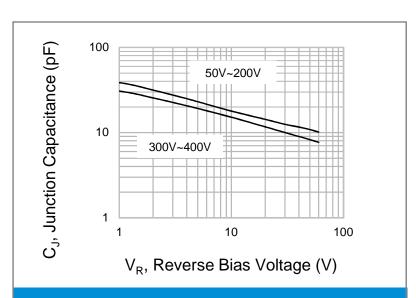


Fig.2 Typical Junction Capacitance

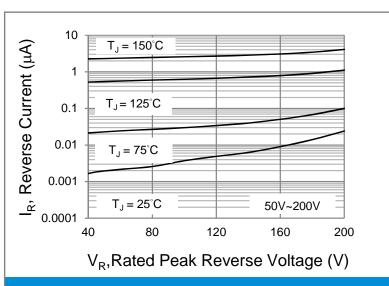


Fig.3 Typical Reverse Characteristics

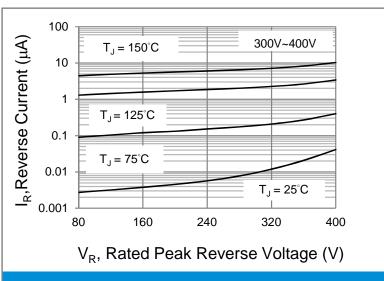
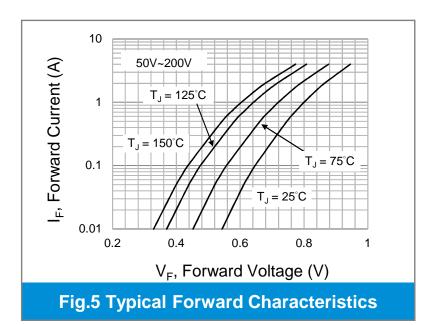
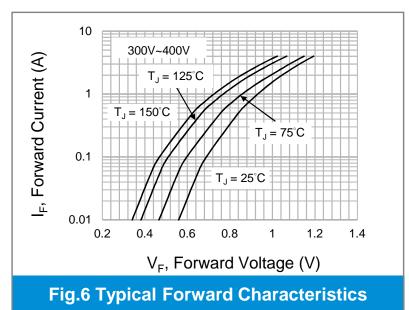


Fig.4 Typical Reverse Characteristics



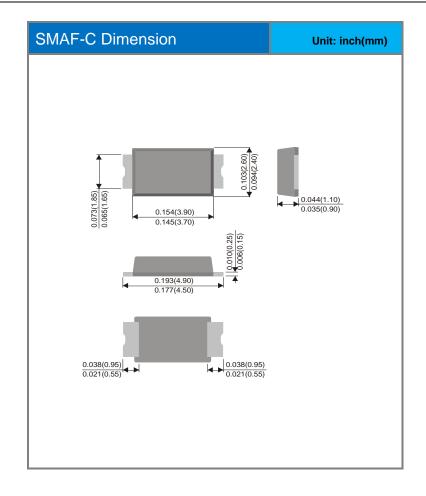


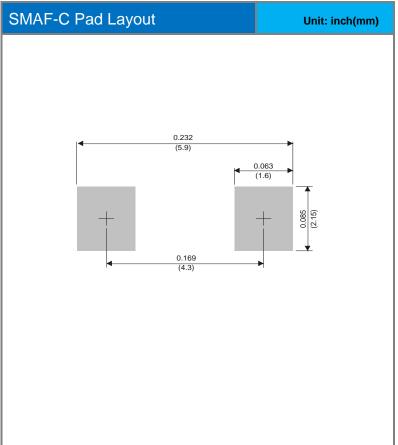


Product and Packing Information

Part No.	Package Type	Packing Type	Marking	
ERT2AAFC	SMAF-C	3K pcs / 7" reel	ERT2A	
ERT2BAFC	SMAF-C	3K pcs / 7" reel	ERT2B ERT2C	
ERT2CAFC	SMAF-C	3K pcs / 7" reel		
ERT2DAFC	SMAF-C	3K pcs / 7" reel	ERT2D	
ERT2EAFC	SMAF-C	3K pcs / 7" reel	ERT2E	
ERT2GAFC	SMAF-C	3K pcs / 7" reel	ERT2G	

Packaging Information & Mounting Pad Layout







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