Unit : inch(mm)

0.044(1.10)

0.035(0.90)

0.146(3.70)

10(0.25)

0.048(1.20)

# **ERT2AF SERIES**

50~600 Volt

### SURFACE MOUNT SUPERFAST RECTIFIER

CURRENT 2 Ampere

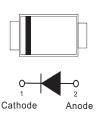
#### **FEATURES**

VOLTAGE

- · For surface mounted applications in order to optimize board space
- · High temperature metallurgically bonded-no compression · Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Ultra thin profile package for space constrained utilization
- · Easy pick and place package suitable for automated handling
- · Glass passivated junction with epi wafer
- Hyperfast recovery time
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

#### **MECHANICAL DATA**

- Case: SMBF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Approx. Weight: 0.0018 ounces, 0.05 grams
- · Polarity: Color band denotes cathode end



0.048(1.20)

SMBF

0.083(2.10)

0.178(4.50)

0.161(4.10)

0.217(5.50) 0.200(5.10)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

	0.445.01								
PARAMETER	SYMBOL	ER12AF	ER12BF	ER12CF	ERI2DF	ERI2EF	ERT2GF	ERT2JF	UNITS
Recurrent Peak Reverse Voltage		50	100	150	200	300	400	600	V
RMS Voltage	V <sub>RMS</sub>	35	70	105	140	210	280	420	V
DC Blocking Voltage	V <sub>R</sub>	50	100	150	200	300	400	600	V
Average Forward Current	I <sub>F(AV)</sub>	2						A	
Peak Forward Surge Current : 8.3ms single half sine- wave superimposed on rated load	I <sub>fsm</sub>	50				-	A		
Forward Voltage at 2A	V <sub>F</sub>	0.95		1.25		1.7	V		
DC Reverse Current at Rated T <sub>J</sub> =25°C DC Blocking Voltage	I <sub>R</sub>	1					μΑ		
Typical Junction Capacitance (Note 1)	C」	35			25		15	рF	
Typical Thermal Resistance ,Junction to Lead (Note 3) Junction to Ambient (Note 4)	R <sub>ejl</sub> R <sub>eja</sub>	20 135						°C / W	
Reverse Recovery Time (Note 2)	T,,	25						ns	
Operating Junction Temperature and Storage Temperature Range	T <sub>J</sub> ,T <sub>stg</sub>	-55 to +150				°C			

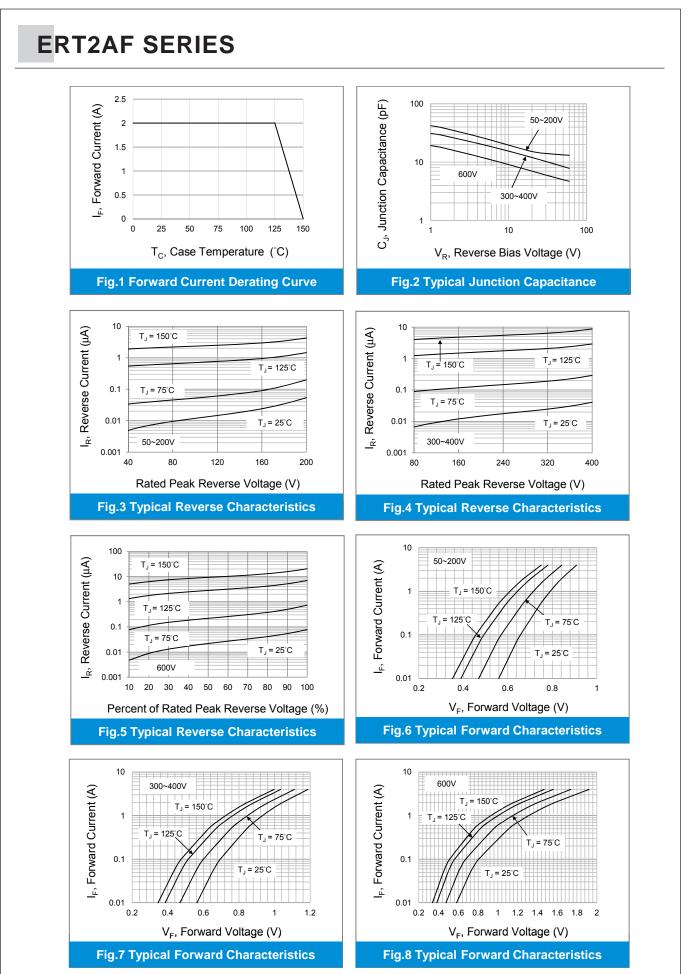
NOTES:1.Measured at 1 MHz and Applied Reverse Voltage of 4 Volt.

2.Reverse Re covery Test Conditions: IF=0.5A, IR=1A, Recover to 0.25A.

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

4.Mounted on a FR4 PCB, single-sided copper, mini pad.



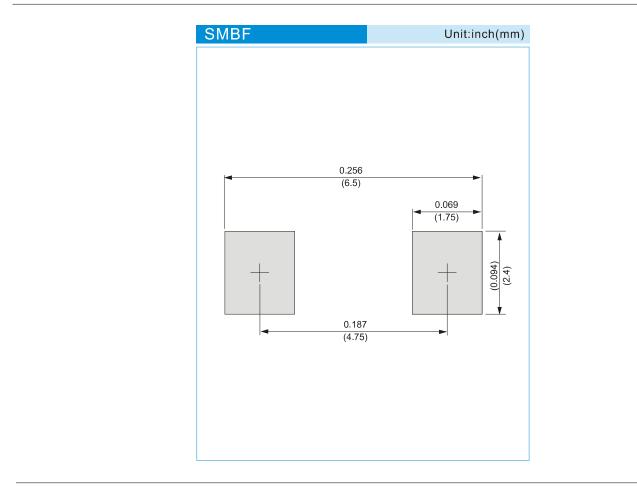


May 13,2016-REV.02



# **ERT2AF SERIES**

### MOUNTING PAD LAYOUT



#### ORDER INFORMATION

· Packing information

T/R - 5K per 13" plastic Reel





# **ERT2AF SERIES**

### Part No\_packing code\_Version

ERT2AF\_R2\_00001

### For example :

RB500V-40\_R2\_00001



- Serial number

• Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





# ERT2AF SERIES

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