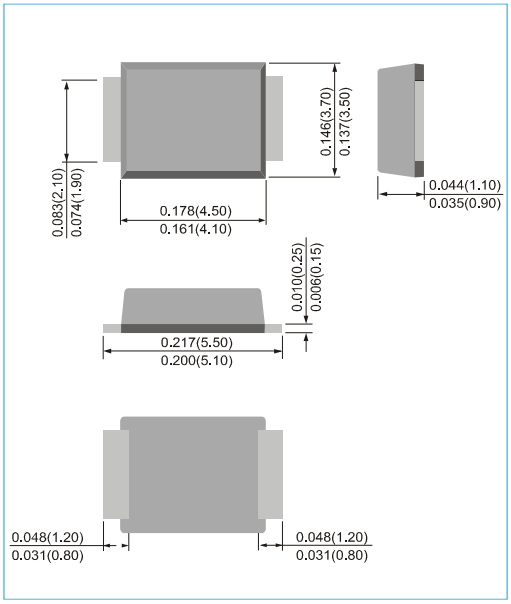
PANJIT SEMI CONDUCTOR

ERT2AF SERIES

SURFACE MOUNT SUPERFAST RECTIFIER

VOLTAGE 50~400 Volt **CURRENT** 2 Ampere

SMBF Unit : inch(mm)

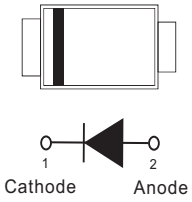


FEATURES

- For surface mounted applications in order to optimize board space
- High temperature metallurgically bonded-no compression
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Glass passivated junction
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2011/65/EU directives.
- 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



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

PARAMETER	SYMBOL	ERT2AF	ERT2BF	ERT2CF	ERT2DF	ERT2EF	ERT2GF	UNITS
Recurrent Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	V
RMS Voltage	V_{RMS}	35	70	105	140	210	280	V
DC Blocking Voltage	V_R	50	100	150	200	300	400	V
Average Forward Current	$I_{F(AV)}$	2						A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	50						A
Forward Voltage at 2A	V_F	0.95				1.25		V
DC Reverse Current at Rated DC Blocking Voltage T_J=25°C	I_R	1						μA
Typical Junction Capacitance (Note 1)	C_J	35				25		pF
Typical Thermal Resistance ,Junction to Lead (Note 3) Junction to Ambient (Note 4)	$R_{\theta JL}$ $R_{\theta JA}$	20 135						°C / W
Reverse Recovery Time (Note 2)	T_{rr}	25						ns
Operating Junction Temperature and Storage Temperature Range	T_J,T_{STG}	-55 to +150						°C

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

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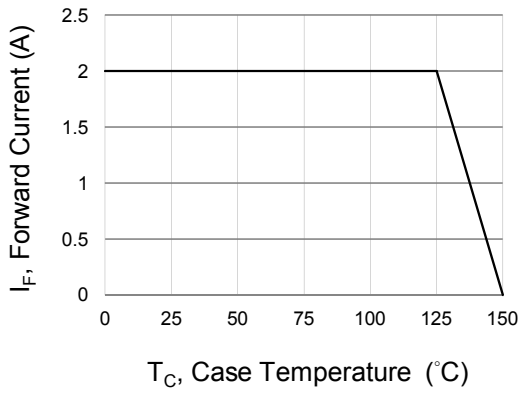


Fig.1 Forward Current Derating Curve

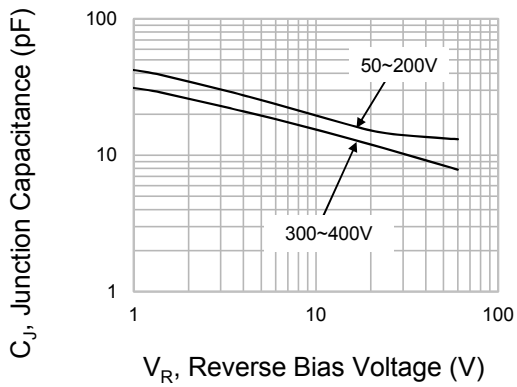


Fig.2 Typical Junction Capacitance

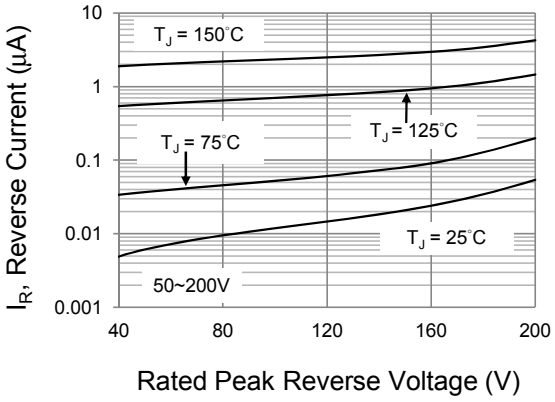


Fig.3 Typical Reverse Characteristics

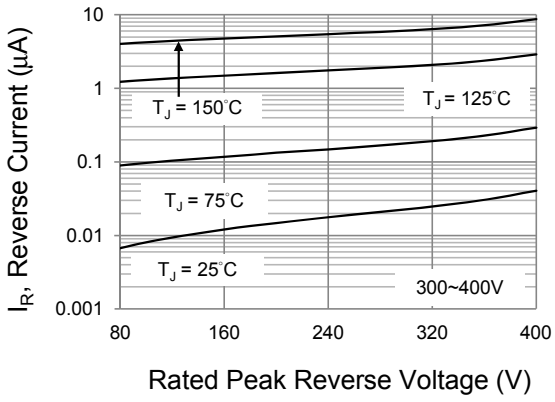


Fig.4 Typical Reverse Characteristics

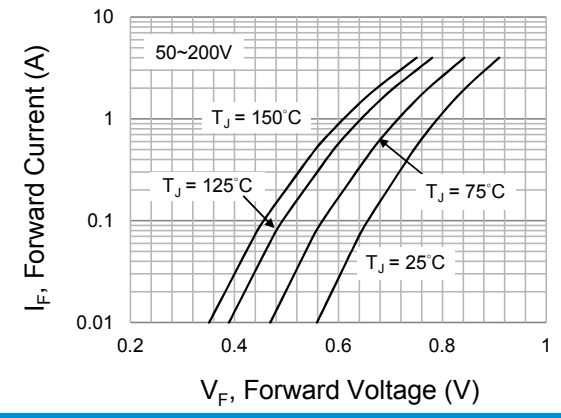


Fig.5 Typical Forward Characteristics

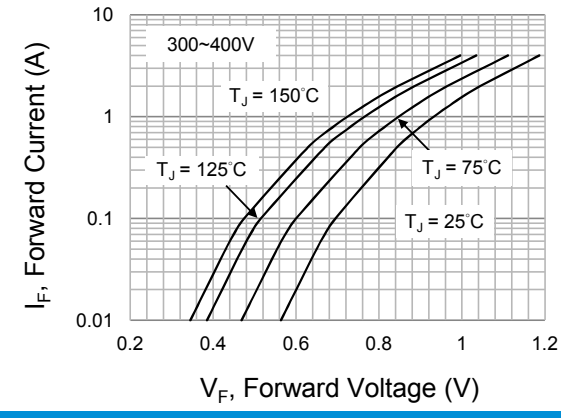
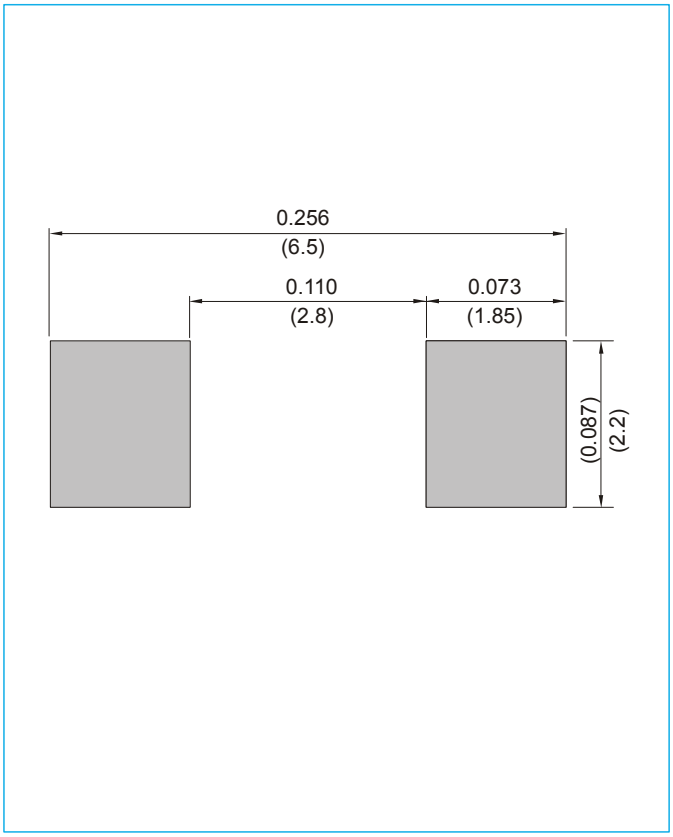


Fig.6 Typical Forward Characteristics

ERT2AF SERIES

MOUNTING PAD LAYOUT

SMBF Unit : inch(mm)



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

- Part No.
- Serial number
- Version code means HF
- Packing size code means 13"
- Packing type means T/R

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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)	B	13"	2			
Tube Packing (T/P)	T	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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