



ISOLATION SUPERFAST RECOVERY RECTIFIER

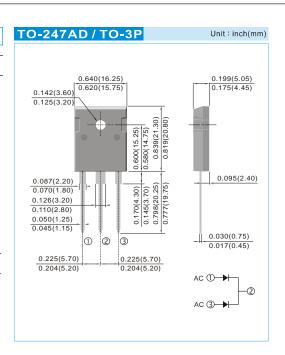
VOLTAGE 200 to 400 Volts CURRENT 30 Amperes

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forward voltge, high current capability
- · High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- · Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- Case: TO-3P Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- Weight: 0.2245 ounces, 6.367 grams.



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICSS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	ER3002PT ER3004PT		UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200 400		V
Maximum RMS Voltage	V _{RMS}	140 280		V
Maximum DC Blocking Voltage	V _{DC}	200 400		V
Maximum Average Forward Current	I _{F(AV)}	3	А	
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	3	А	
Maximum Forward Voltage at 15A	V _F	0.95	1.3	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _j =25°C T _j =125°C	I _R	5	μА	
Maximum Reverse Recovery Time (Notes 2)	t _{rr}	3	ns	
Typical Junction Capacitance (Notes 1)	CJ	1.	pF	
Typical Thermal Resistance (Notes 3)	R _{eJC}	:	°C / W	
Operating Junction and Storage Temperature Range	T _J ,T _{STG}	-55 to	°C	

NOTES

- 1. Measured at 1MHz and applied reverse voltage of 4.0 Volts.
- 2. Reverse Recovery Test Conditions: I_F=0.5A, I_R=1A, Recover to 0.25A.
- 3. Infinite heatsink.





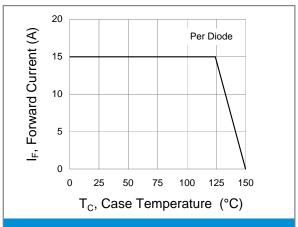


Fig.1 Forward Current Derating Curve

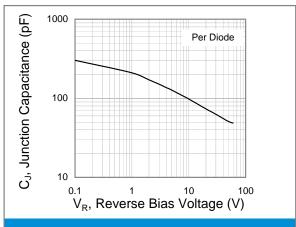


Fig.2 Typical Junction Capacitance

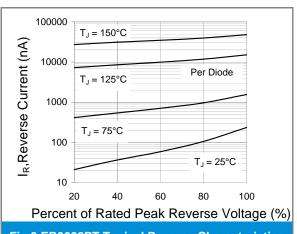


Fig.3 ER3002PT Typical Reverse Characteristics

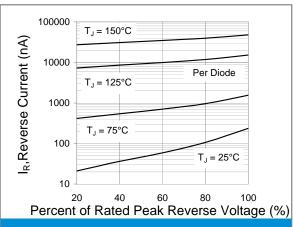


Fig.4 ER3004PT Typical Reverse Characteristics

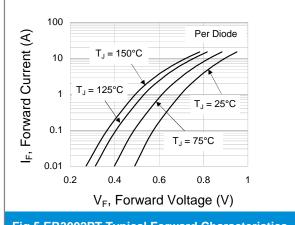


Fig.5 ER3002PT Typical Forward Characteristics

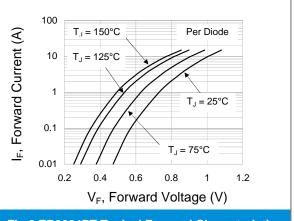


Fig.6 ER3004PT Typical Forward Characteristics





Part No_packing code_Version

ER3002PT_T0_00001 ER3002PT_T0_10001

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	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	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			





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