



ISOLATION SUPERFAST RECOVERY RECTIFIER

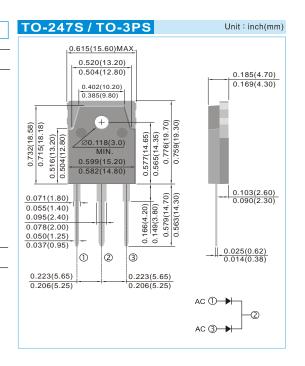
VOLTAGE 200 Volts CURRENT 20 Amperes

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 voltage, high current capability
- · High surge capacity.
- Super fast recovery times, high voltage.
- Epitaxial chip construction.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICAL DATA

- Case: TO-3PS Molded plastic
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- Weight: 0.1932 ounces, 5.48 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			VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	200	٧
Maximum RMS Voltage		V _{RMS}	140	V
Maximum DC Blocking Voltage		V _{DC}	200	V
Maximum Average Forward Current	per device per diode	I _{F(AV)}	20 10	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	per diode	I _{FSM}	150	А
Maximum Forward Voltage at 10A	per diode	V _F	1	٧
Maximum DC Reverse Current at Rated DC Blocking Voltage	per diode	l _R	10	μА
Maximum Reverse Recovery Time (Note 1)		t _{rr}	25	ns
Typical Thermal Resistance (Note 2)	per diode	R _{eJC}	2	°C / W
Operating Junction and Storage Temperature Range		T _J ,T _{STG}	-55 to +150	°C

NOTES:

- 1. Reverse Recovery Test Conditions: I_F=.5A, I_R=1A, Irr=.25A.
- 2. Semi-infinite heatsink.





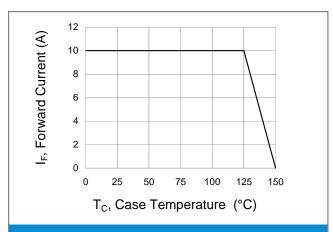


Fig.1 Forward Current Derating Curve

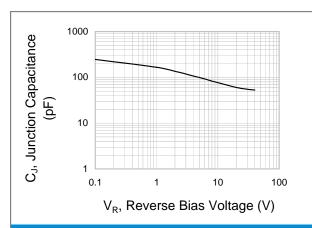


Fig.2 Typical Junction Capacitance

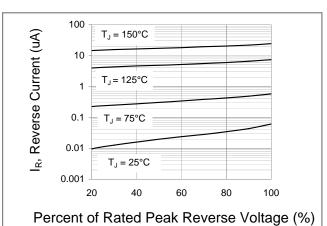


Fig.3 Typical Reverse Characteristics

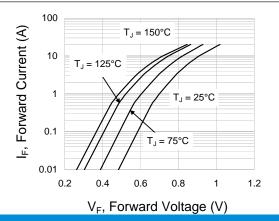


Fig.4 Typical Forward Characteristics





Part No_packing code_Version

ER2002ST_T0_00001 ER2002ST_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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