



SUPERFAST RECOVERY RECTIFIERS

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FEATURES

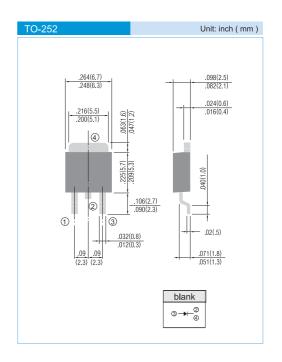
- Superfast recovery times-epitaxial construction.
- · Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.

VOLTAGE 200 to 600 Volts CURRENT 5.0 Amperes

- · Hermetically sealed.
- Low leakage.
- High surge capability.
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- Lead free in comply with EU RoHS 2002/95/EC directives

MECHANICALDATA

- Case: Molded plastic, TO-252 / DPAK
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0104 ounces, 0.297 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

PARAMETER	SYMBOL	ED502S	ED503S	ED504S	ED506S	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	200	300	400	600	V
Maximum RMS Voltage	V _{RMS}	140	210	280	420	V
Maximum DC Blocking Voltage	V _{DC}	200	300	400	600	V
Maximum Average Forward Current at T _A =75°C	I _{F(AV)}	5.0				А
Peak Forward Surge Current :8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	75				А
Maximum Forward Voltage at 5.0A DC	V _F	0.95 1.25		1.70	V	
Maximum DC Reverse Current at T _J =25°C Rated DC Blocking Voltage T _J =125°C	I _R		μΑ			
Maximum Reverse Recovery Time	t _{rr}		nS			
Typical Junction capacitance	C J		pF			
Typical Thermal Resistance	R _{eJA}	9.0				°C / W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150				°C

NOTES:

1. Thermal Resistance Junction to Ambient .





RATING AND CHARACTERISTIC CURVES

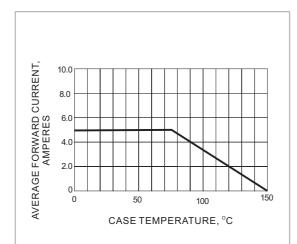


Fig.1-FORWARD CURRENT DERATING CURVE

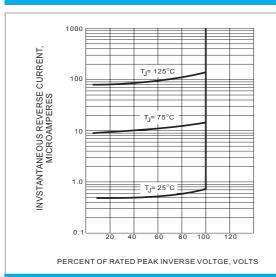
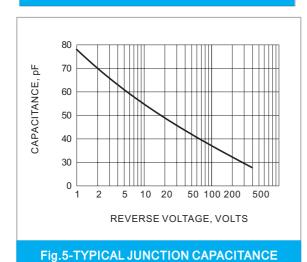


Fig.3-TYPICAL REVERSE CHARACTERISTICS



10 200V 300-400V 600V 600V 1 1 600V 1 1 6 .8 1.0 1.2 1.4 1.6 1.8 2.0 INSTANTANEOUS FORWARD VOLTAGE , VOLTS

Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

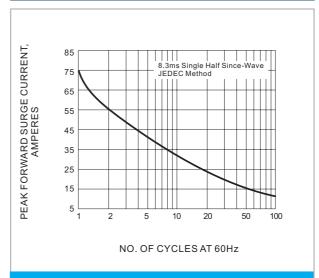
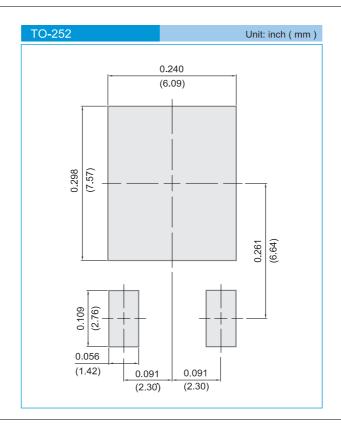


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

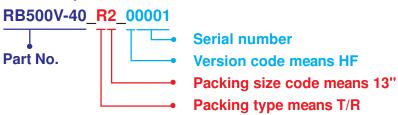
• Packing information

T/R - 3K per 13" plastic Reel





For example:



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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	В	13"	2			
T/P	Т	26mm	X			
TRR	S	52mm	Υ			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

ED502S_L2_00001

ED502S_L2_10001

ED502S_S2_00001

ED502S_S2_10001





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