



# ED502S~ED506S

## SUPERFAST RECOVERY RECTIFIERS

**VOLTAGE** 200 to 600 Volt **CURRENT** 5 Ampere

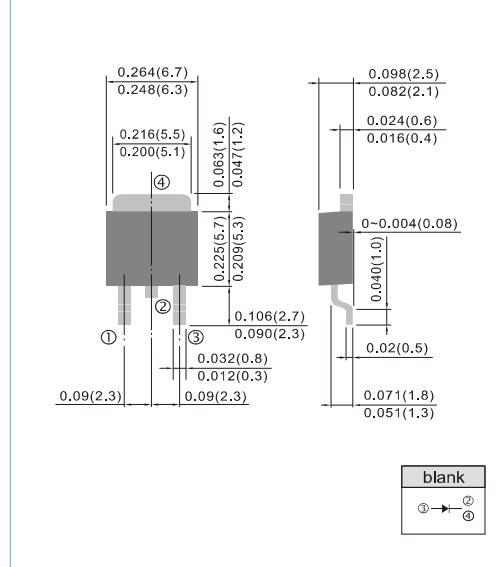
**TO-252** Unit : inch(mm)

### FEATURES

- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- 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 & { ] ä & Á ä Ö W Á ] P Ú Á G F F B í È W á á ^ & ç ^ Á Á
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: Molded plastic, TO-252
- 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 $T_A = 75^\circ\text{C}$	$I_{F(AV)}$	5				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	75				A
Maximum Forward Voltage at 5A DC	$V_F$	0.95	1.25	1.7		V
Maximum DC Reverse Current at Rated DC Blocking Voltage $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_R$		1 300			$\mu\text{A}$
Maximum Reverse Recovery Time	$t_{rr}$		35			nS
Typical Junction Capacitance	$C_J$		45			pF
Typical Thermal Resistance	$R_{\theta JA}$		9			$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$		-55 to +150			$^\circ\text{C}$

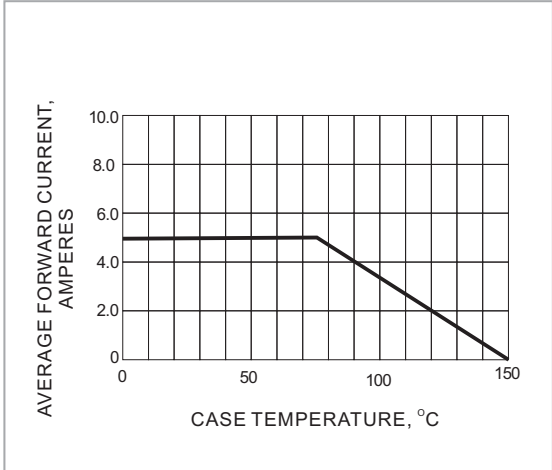
#### NOTES:

1. Thermal Resistance Junction to Ambient .

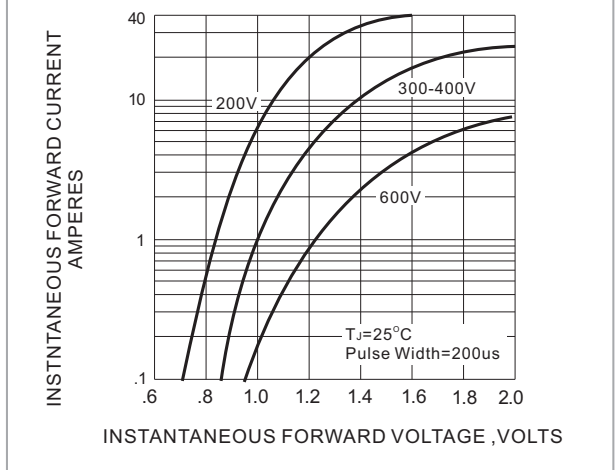


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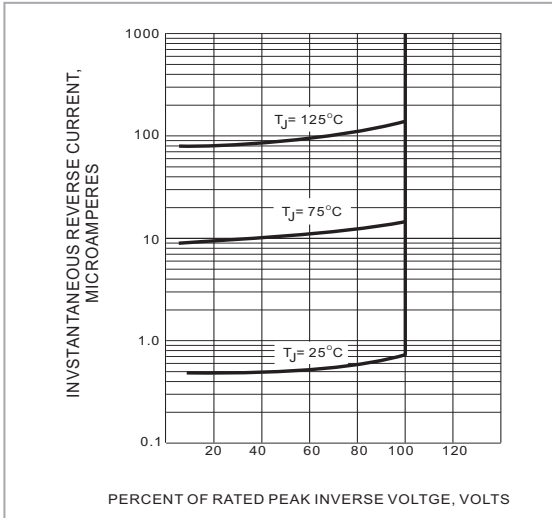
## RATING AND CHARACTERISTIC CURVES



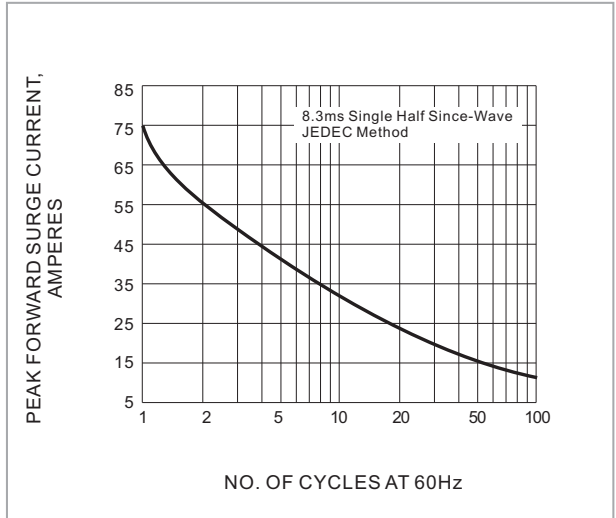
**Fig. 1-FORWARD CURRENT DERATING CURVE**



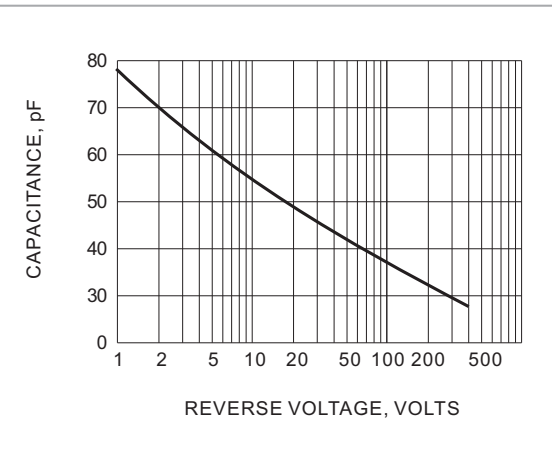
**Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC**



**Fig. 3-TYPICAL REVERSE CHARACTERISTICS**



**Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT**



**Fig. 5-TYPICAL JUNCTION CAPACITANCE**

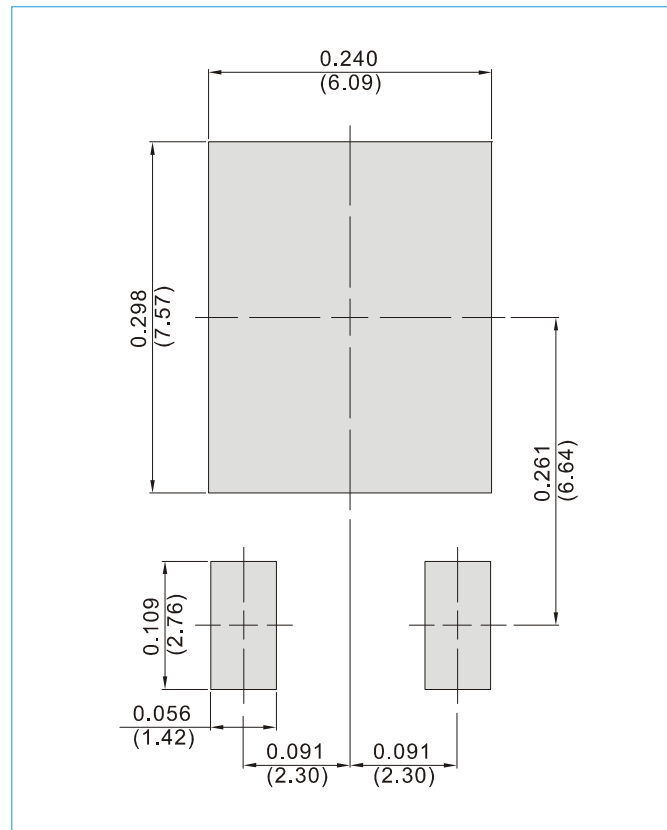


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## MOUNTING PAD LAYOUT

**TO-252**

Unit : inch(mm)



## ORDER INFORMATION

- Packing information  
T/R - 3K per 13" plastic Reel



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### Part No\_packing code\_Version

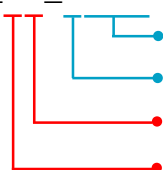
ED502S\_L2\_00001

ED502S\_S2\_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 <b>XX</b>				Version Code <b>XXXXX</b>		
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)	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			



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