



ED302S~ED306S

SUPERFAST RECOVERY RECTIFIERS

Voltage

200~600 V

Current

3 A

Features

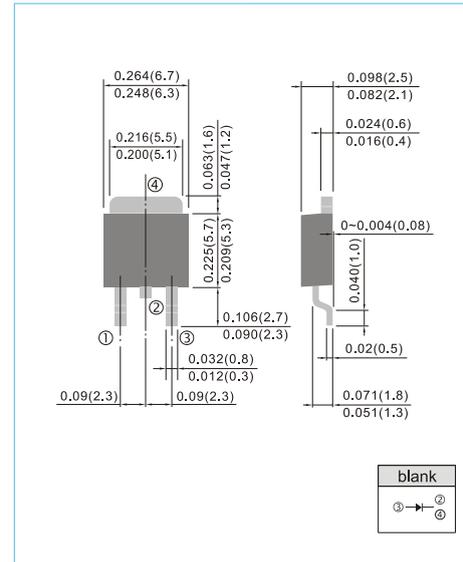
- Plastic package has Underwriters Laboratories Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound
- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- Exceeds environmental standards of MIL-S-19500/228.
- Hermetically sealed.
- Low leakage.
- High surge capability.
- Lead free in compliance with EU RoHS 2011/65/EU directive.
- Green molding compound as per IEC61249 Std..(Halogen Free)

Mechanical Data

- Case: TO-252 Molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

TO-252

Unit : inch(mm)



Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	ED302S	ED303S	ED304S	ED306S	UNIT
Maximum repetitive 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_R	200	300	400	600	V
Maximum average forward rectified current	$I_{F(AV)}$	3				A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	75				A
Maximum forward voltage at 3A	V_F	0.95	1.25		1.7	V
Maximum dc reverse current at rated dc blocking voltage	I_R	1				μA
		300				
Maximum reverse recovery time	T_{RR}	35				nS
Typical junction capacitance	C_J	45				pF
Typical thermal resistance	$R_{\theta JA}$	25				$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-55 to +150				$^\circ\text{C}$



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RATING AND CHARACTERISTIC CURVES

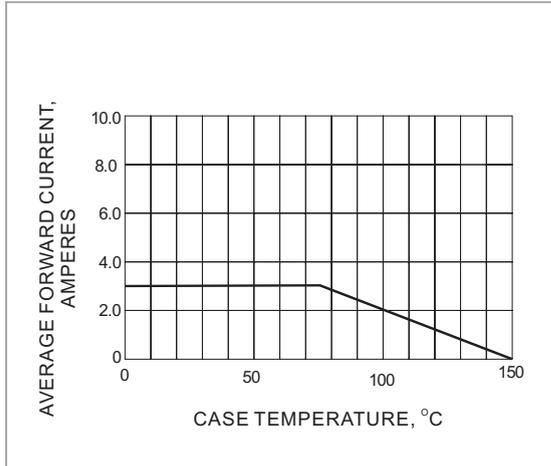


Fig. 1-FORWARD CURRENT DERATING CURVE

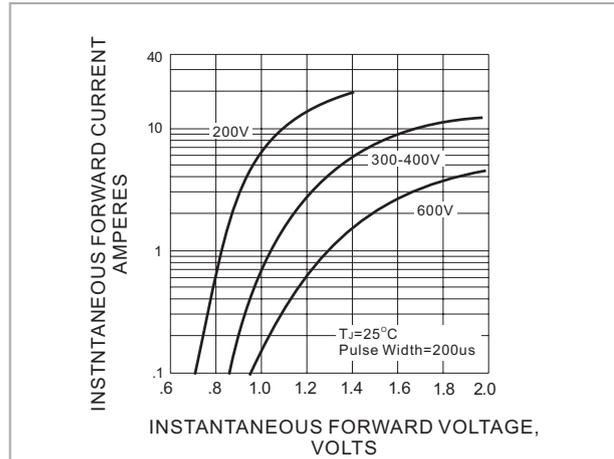


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

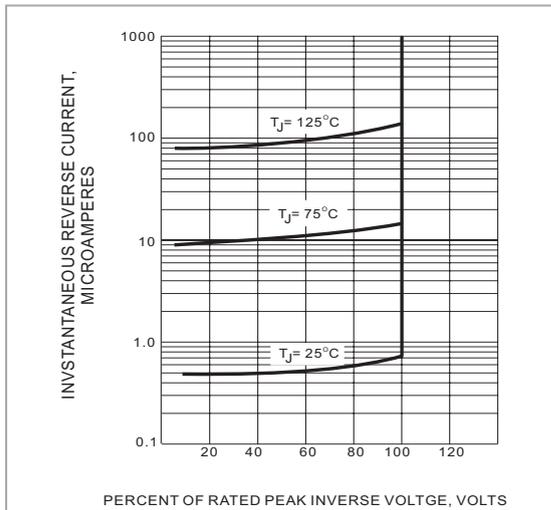


Fig.3-TYPICAL REVERSE CHARACTERISTICS

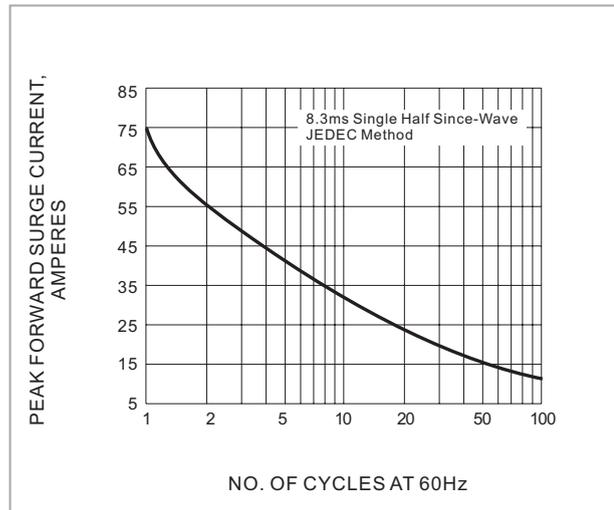


Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT

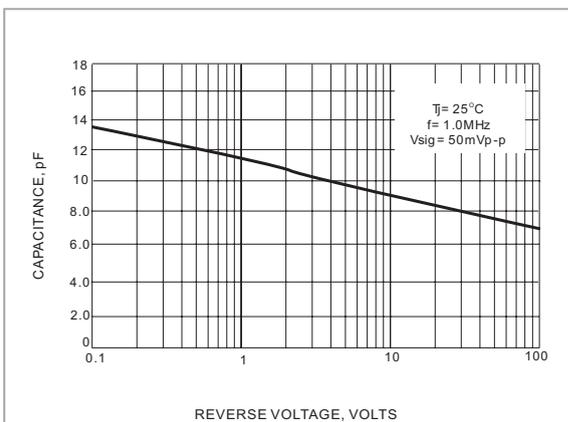
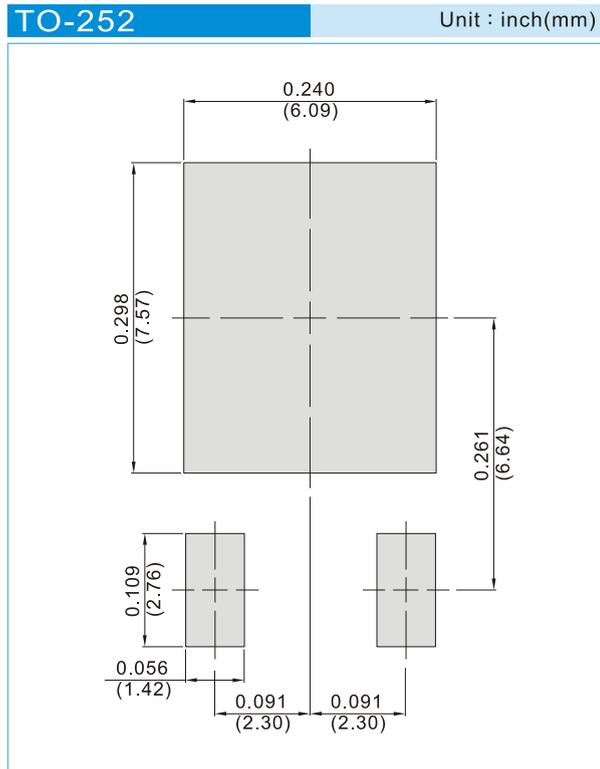


Fig.5-TYPICAL JUNCTION CAPACITANCE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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Part No_packing code_Version

ED302S_L2_00001

ED302S_S2_00001

For example :

RB500V-40_R2_00001



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)	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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