

# EDT302S \ EDT302T \ EDT302YT

## SUPERFAST RECOVERY RECTIFIERS

**Voltage**

**200 V**

**Current**

**3 A**

### Features

- Plastic package has Underwriters Laboratory. Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound.
- Superfast recovery times-epitaxial construction.
- Low forward voltage, high current capability.
- 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) (TO-252)

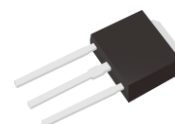
### Mechanical Data

- Case: Molded plastic, TO-252, TO-251AB
- Terminals: Solderable per MIL-STD-750, Method 2026
- TO-252 Weight: 0.0104 ounces, 0.297 grams
- TO-251AB Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number

EDT302S TO-252



EDT302T \ EDT302YT TO-251AB



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

PARAMETER	SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	200	V
Maximum rms voltage	$V_{RMS}$	140	V
Maximum dc blocking voltage	$V_R$	200	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	$I_{FSM}$	65	A
Maximum forward voltage at 3A	$V_F$	0.95	V
Maximum dc reverse current at rated dc blocking voltage	$I_R$	1	$\mu\text{A}$
Typical junction capacitance Measured at 1MHZ and applied $V_R=4$ volts.	$C_J$	50	pF
Operating junction temperature range	$T_J$	-55 to +150	$^{\circ}\text{C}$
Storage temperature range	$T_{STG}$	-55 to +150	$^{\circ}\text{C}$

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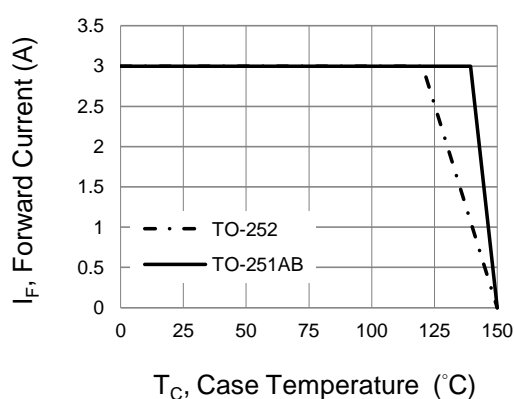
Maximum Ratings ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 3)	$T_{RR}$	25	ns
Typical thermal resistance	TO-252 (Note 1)	$R_{\theta JC}$	14	$^{\circ}\text{C/W}$
	TO-251AB (Note 2)		5	

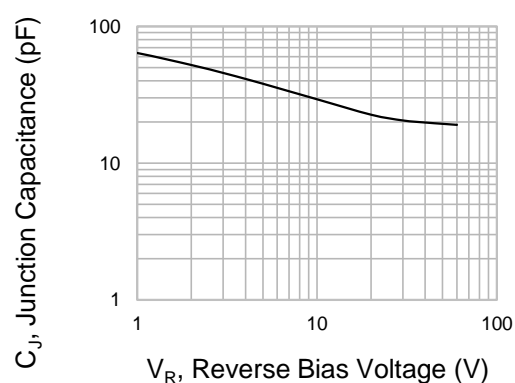
Note: 1. Mounted on a FR4 PCB, single-sided copper, with  $100\text{cm}^2$  copper pad area

2. Device mounted on a infinite heatsink , then measured the center of the marking side.

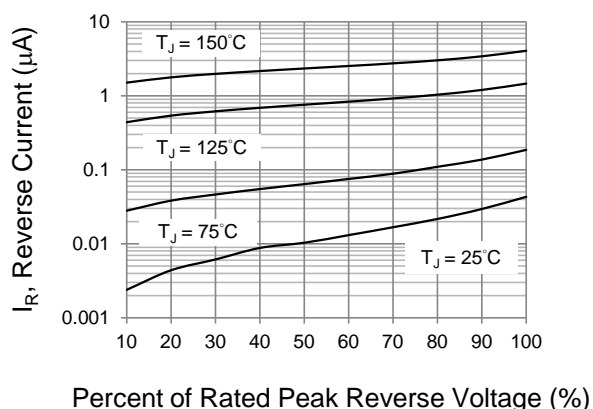
3. Reverse Recovery Test Conditions:  $I_F=0.5\text{A}$ ,  $I_R=-1\text{A}$ , Recover to  $-0.25\text{A}$ .



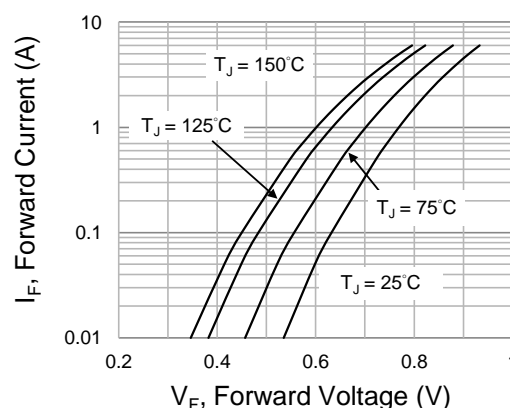
**Fig.1 Forward Current Derating Curve**



**Fig.2 Typical Junction Capacitance**



**Fig.3 Typical Reverse Characteristics**



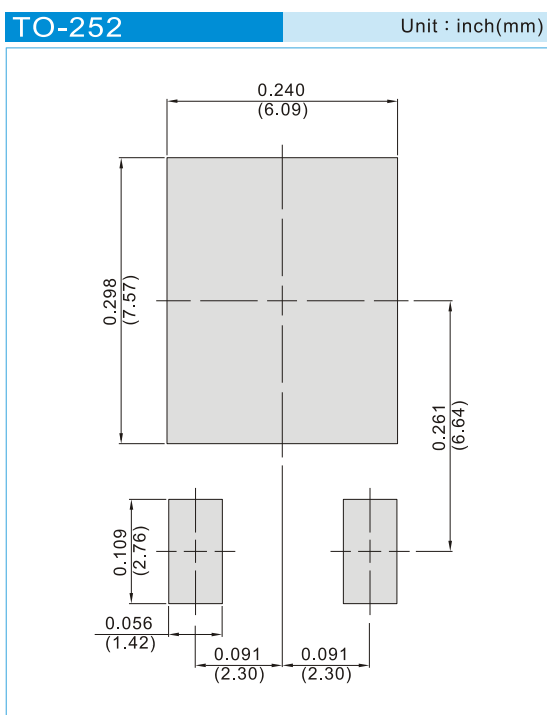
**Fig.4 Typical Forward Characteristics**

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### PART NO PACKING CODE VERSION

Part No Packing Code	Package Type	Packing type	Marking	Version
EDT302S_L2_00001	TO-252	3K pcs / 13" reel	EDT302S	Halogen free
EDT302T_T0_10001	TO-251AB	80 pcs / Tube	EDT302T	RoHS
EDT302YT_T0_10001	TO-251AB	80 pcs / Tube	EDT302YT	RoHS

### MOUNTING PAD LAYOUT

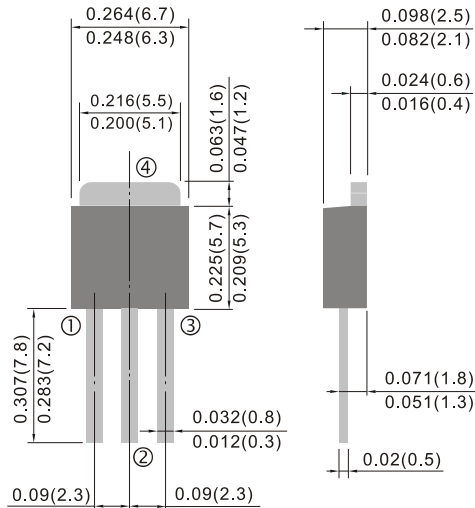


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## EDT302T

**TO-251AB**

Unit : inch(mm)



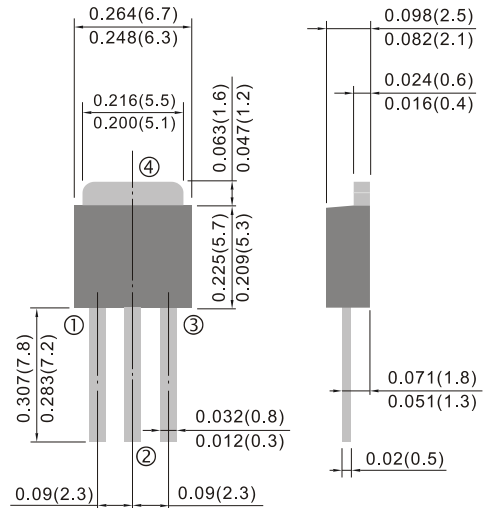
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## EDT302YT

**TO-251AB**

Unit : inch(mm)



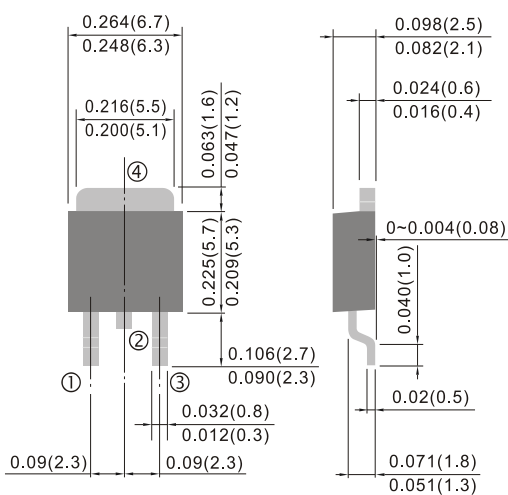
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## EDT302S

**TO-252**

Unit : inch(mm)



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