



#### ERT1602CT \ ERT1602FCT SUPERFAST RECOVERY RECTIFIERS 200 V Current 16 A Voltage ERT1602CT TO-220AB Features • Plastic package has Underwriters Laboratory. Flammability Classification 94V-O. Flame Retardant Epoxy Molding Compound. • Hyperfast recovery time. • Epitaxial construction. · Low forward voltage, high current capability. · Hermetically sealed. Low leakage. ERT1602FCT ITO-220AB • High surge capability. • Lead free in compliance with EU RoHS 2011/65/EU directive. Mechanical Data • Case: Molded plastic, TO-220AB, ITO-220AB • Terminals: Axial leads, solderable per MIL-STD-750, Method 2026 TO-220AB Weight: 0.067 ounces, 1.89 grams.

- ITO-220AB Weight: 0.056 ounces, 1.6 grams.
- Marking: Part number

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

PARAMETER			SYMBOL	LIMIT	UNIT
Maximum repetitive peak reverse voltage			Vrrm	200	V
Maximum rms voltage			Vrms	140	V
Maximum dc blocking voltage			VR	200	V
Maximum average forward rectified current		per device		16	
		per diode	lf(AV)	8	A
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load per diode			IFSM	125	А
Maximum forward voltage at 8A per diode			VF	0.95	V
Maximum dc reverse current at rated dc blocking voltage per diode			lr	1	μA
Typical junction capacitance (N	Note 1)		CJ	75	pF
Operating junction temperature range			TJ	-55 to +150	°C
Storage temperature range			Tstg	-55 to +150	°C

Note:1. Measured at 1 MHz and Applied Reverse Voltage of 4 Volts.



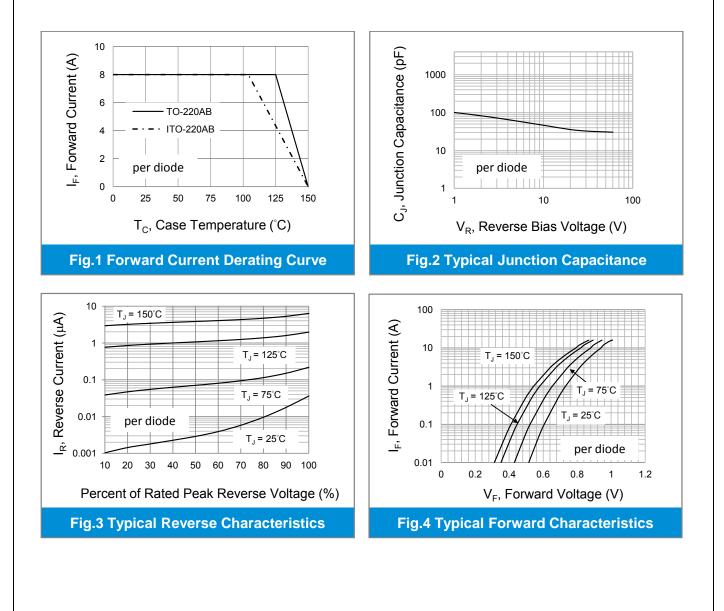


### Maximum Ratings (T<sub>A</sub>=25°C unless otherwise noted)

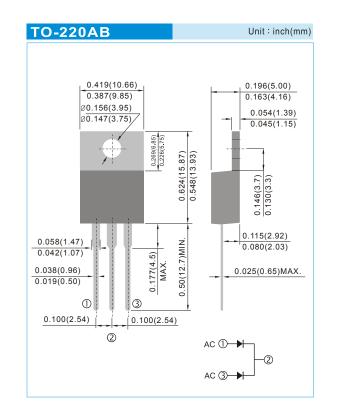
PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 2)	Trr	25	ns
Typical thermal resistance per diode	TO-220AB (Note 3) ITO-220AB (Note 3)	$R_{ extsf{ heta}JC}$	1.5 5	°C/W

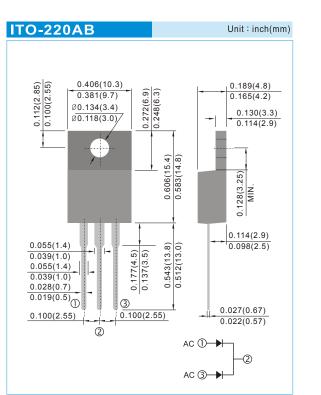
Note:2. Reverse Recovery Test Conditions : IF=0.5A, IR=-1A, Recovery to -0.25A

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













### Part No\_packing code\_Version

ERT1602CT\_T0\_00001 ERT1602CT\_T0\_10001 ERT1602FCT\_T0\_00001 ERT1602FCT\_T0\_10001

### For example :

RB500V-40\_R2\_00001

Serial number
Version code means HF

Part No.

Packing size code means 13"

#### Packing type means T/R

Packing Code XX					Version Code XXXXXX		
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)	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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