



#### ERT1602CT \ ERT1602FCT SUPERFAST RECOVERY RECTIFIERS 200 V Voltage Current 16 A 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. • Green molding compound as per IEC61249 Std. . (Halogen Free) 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		
	per device		16	А	
Maximum average forward rectified curre	per diode	lf(AV)	8		
Peak forward surge current : 8.3ms singl wave superimposed on rated load per d	lfsm	125	А		
Maximum forward voltage at 8A per diod	Vf	0.95	V		
Maximum dc reverse current at rated dc per diode	IR	1	μΑ		
Typical junction capacitance (Note	1)	CJ	75	pF	
Operating junction temperature range	TJ	-55 to +150	°C		
Storage temperature range	Тѕтс	-55 to +150	°C		

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



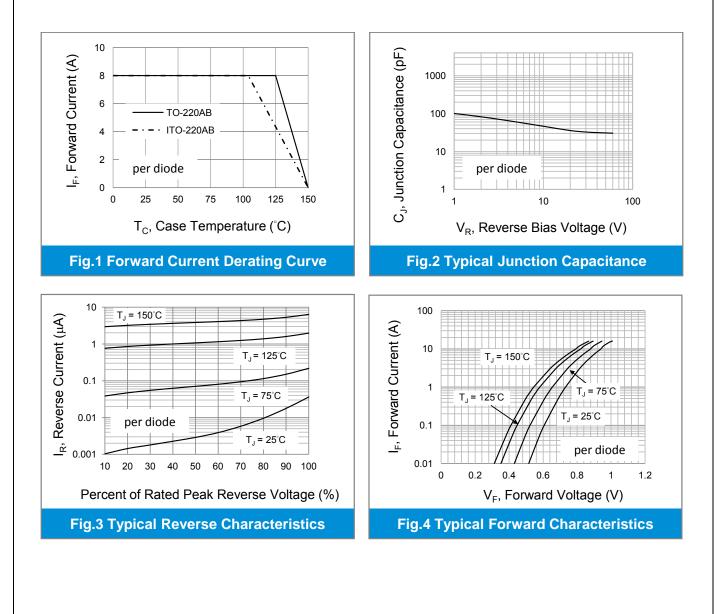
# ERT1602CT \ ERT1602FCT

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

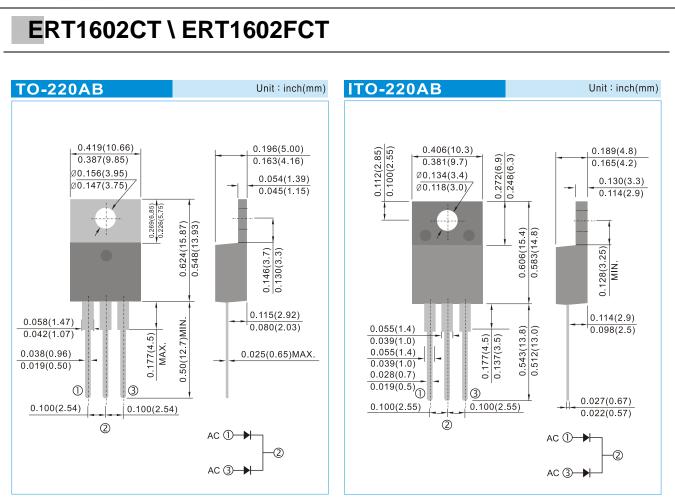
PARAMETER		SYMBOL	LIMIT	UNIT
Maximum reverse recovery time	(Note 2)	Trr	25	ns
Typical thermal resistance per diode	TO-220AB (Note 3) ITO-220AB (Note 3)	$R_{ extsf{ heta}JC}$	1.5 5	°C/W

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

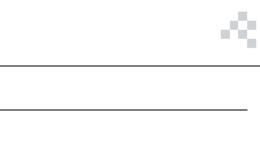
3. Device mounted on a infinite heatsink , then measured the center of the marking side.











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### 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 XXXXX		
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)	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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