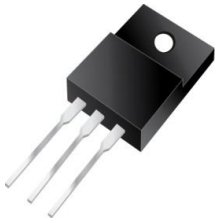
EBRT20E150FCT

Excellent Schottky Barrier Rectifiers



ITO-220AB

Device P/N	
Part Number	**Remark**
EBRT20E150FCT	General
EBRT20E150FCT-H	Halogen Free

Primary Characteristics		
I_F	20	A
V_{RRM}	150	V
I_{FSM}	150	A
V_F	0.62 (IF=5A TJ=125°C)	V
T_J max	150	°C

Features

- Low power loss, high efficiency
- Low forward voltage drop
- High forward surge capability
- High frequency operation
- Excellent high temperature stability

Mechanical Data

- Case: ITO-220AB
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe.Solderable per MIL-STD-202, Method 208
- Weight: 1.645 grams (approximate)

Ordering Information

Part No.	Package	Packing
EBRT20E150FCT	ITO-220AB	50 & 2000 / Tube & Box

Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	EBRT20E150FCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	150	V
Maximum RMS voltage	V_{RMS}	105	V
Maximum DC blocking voltage	V_{DC}	150	V
Maximum average forward rectified current (Total) (Per Leg)	I_F	 20 10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage IF=5A @ 25°C IF=5A @ 125°C IF=10A @ 25°C IF=10A @ 125°C	V_F	 0.77 Typ. 0.62 Typ. 0.83 Max. 0.75 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.2 15	mA
Typical Junction Capacitance(NOTE1)	C_j	720	pF
Typical Thermal Resistance	$R_{\theta JC}$	3	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C
Marking Code		20E150FCT、T20E150FCT	

NOTES:

1.Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

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Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

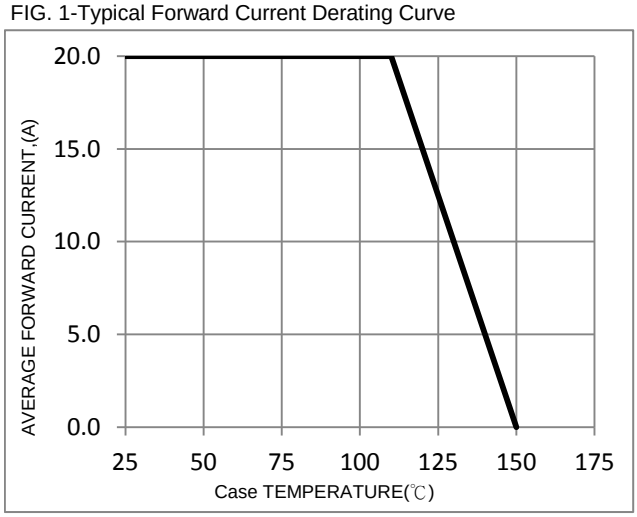


FIG. 2-Typical Forward Characteristics

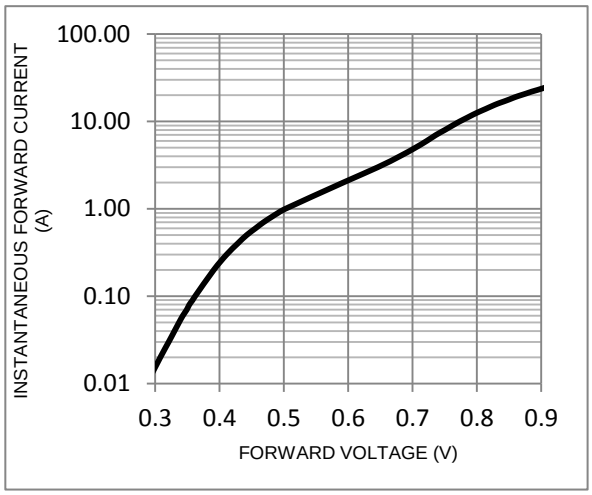


FIG. 3-Maximum Non-Repetitive Forward Surge Current

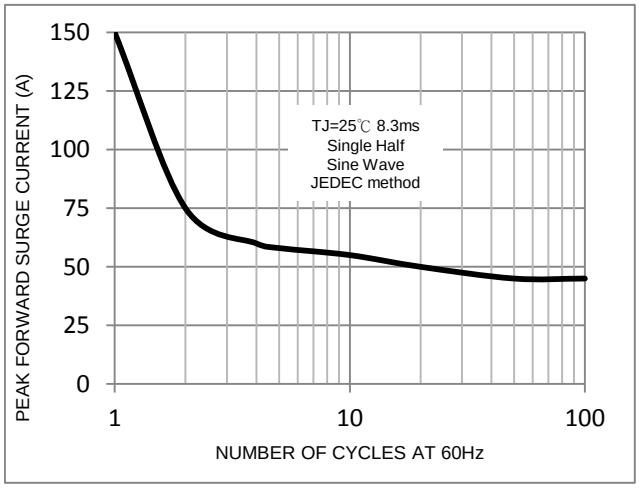


FIG. 4-Typical Reverse Characteristics

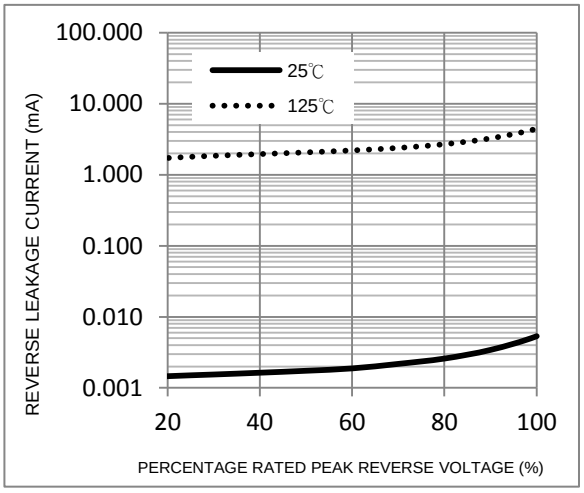
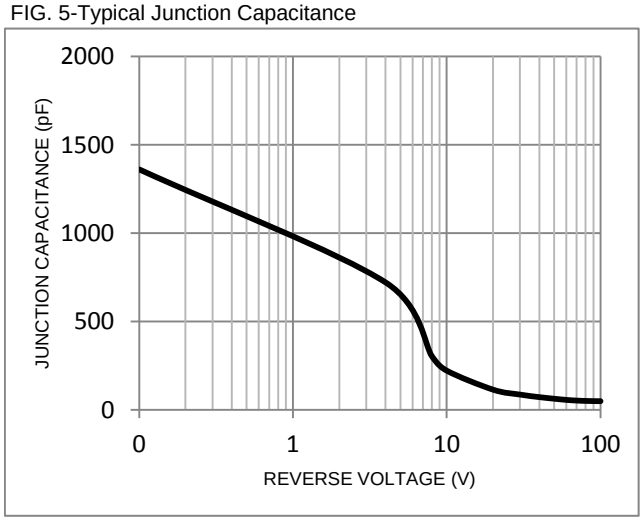


FIG. 5-Typical Junction Capacitance



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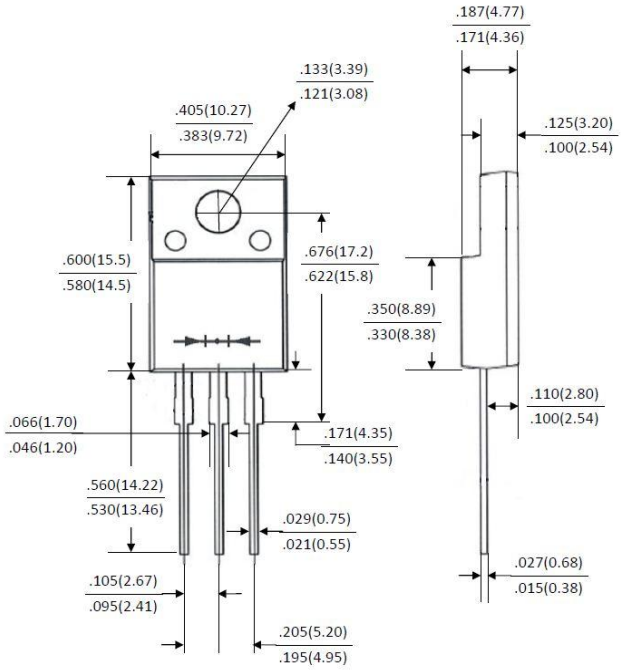
Package Outline Dimensions



ITO-220AB

Dimensions in inches and (millimeters)

Marking Information