EBRP20E300FCT

Excellent Schottky Barrier Rectifiers

ITO-220AB

Primary Characteristics		
I_F	20	A
V_{RRM}	300	V
I_{FSM}	200	A
V_F	0.87	V
T_J max	150	°C

Features

- Low Forward Voltage Drop
- Excellent High Temperature Stability
- Excellent Barrier Rectifier Technology
- Soft, Fast Switching Capability

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.	Remark	Package	Packing
EBRP20E300FCT	General	ITO-220AB	50 & 2000 / Tube & Box
EBRP20E300FCT-H	Halogen Free		

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

PARAMETER	SYMBOL	EBRP20E300FCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	300	V
Maximum RMS voltage	V_{RMS}	210	V
Maximum DC blocking voltage	V_{DC}	300	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}	200	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=10A @ 25°C	V_F	 0.72 Typ. 0.87 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.01 5	mA
Typical Junction Capacitance(NOTE1)	C_j	170	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		P20E300FCT	

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

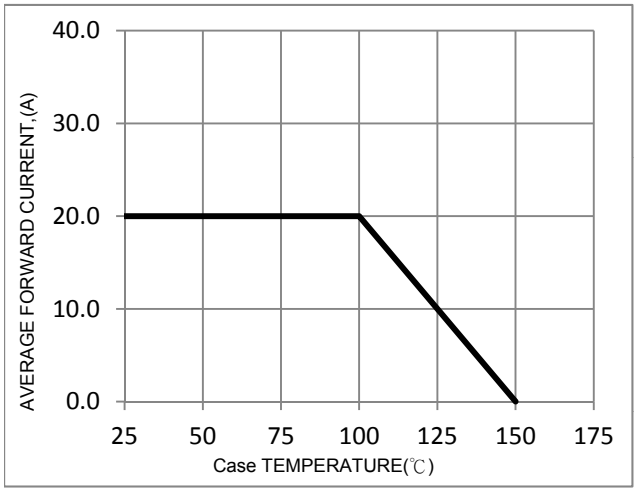


FIG. 2-Typical Forward Characteristics

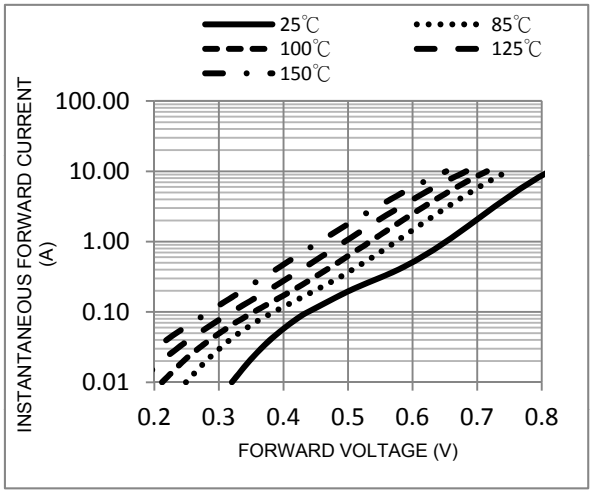


FIG. 3-Maximum Non-Repetitive Forward Surge Current

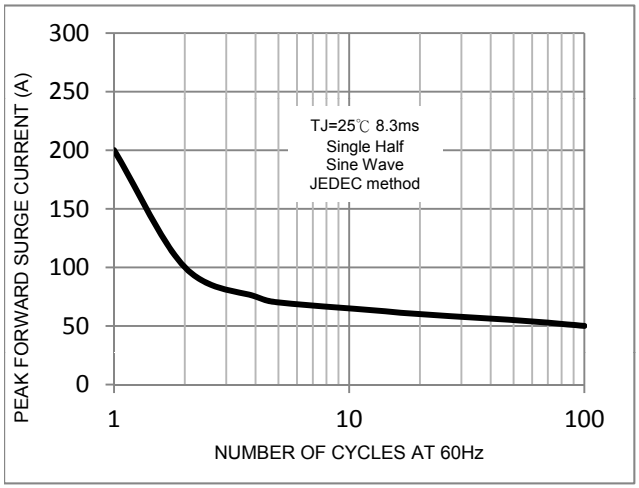


FIG. 4-Typical Reverse Characteristics

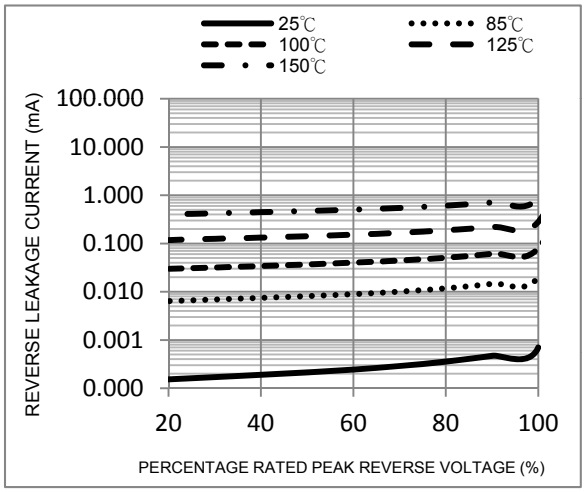
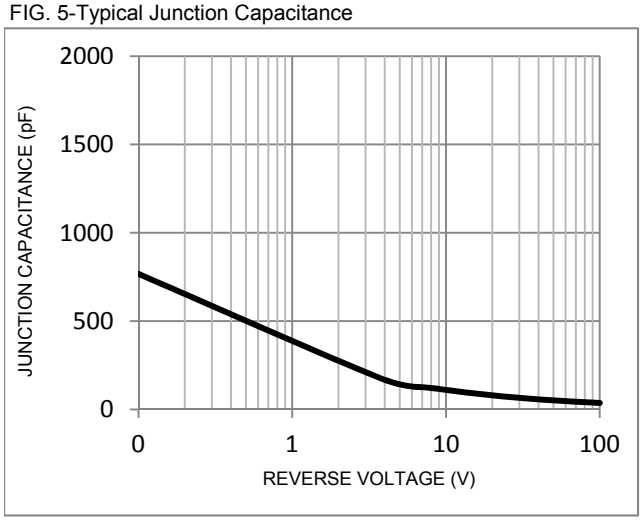


FIG. 5-Typical Junction Capacitance



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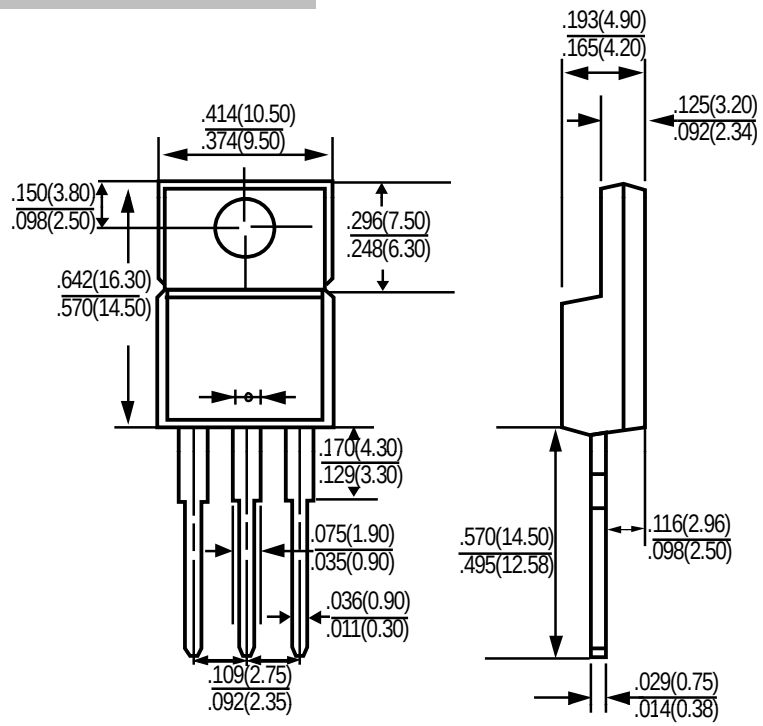
Package Outline Dimensions



ITO-220AB

Dimensions in inches and (millimeters)

Marking Information