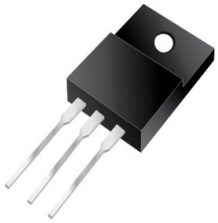
EBRT30M150FCT

Excellent Schottky Barrier Rectifiers



ITO-220AB

Primary Characteristics

I_F	30	A
V_{RRM}	150	V
I_{FSM}	200	A
V_F	1.05(IF=15A TJ=25°C)	V
T_J max	150	℃

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.	Remark	Package	Packing
EBRT30M150FCT	General	ITO-220AB	50 & 2000 / Tube & Box
EBRT30M150FCT-H	Halogen Free		

Maximum Ratings (TA=25℃ unless otherwise noted)

PARAMETER	SYMBOL	EBRT30M150FCT	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	 30 15	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℃ IF=10A @ 25℃ IF=15A @ 25℃	V_F	 0.72 0.9 1.05	V
Maximum DC Reverse Current @ TA=25℃ at Rated DC Blocking Voltage @ TA=125℃ (NOTE1)	I_R	0.15 10	mA
Typical Junction Capacitance (NOTE2)	C_j	760	pF
Typical Thermal Resistance	$R_{\theta JC}$	4	℃/W
Operating Temperature Range	T_J	-40 to +150	℃
Storage Temperature Range	T_{STG}	-40 to +150	℃
Marking Code		30M150FCT、T30M150FCT	

NOTES:

1.Pulse Test：Pulse Width = 300 μs, Duty Cycle ≦ 2.0%.

2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

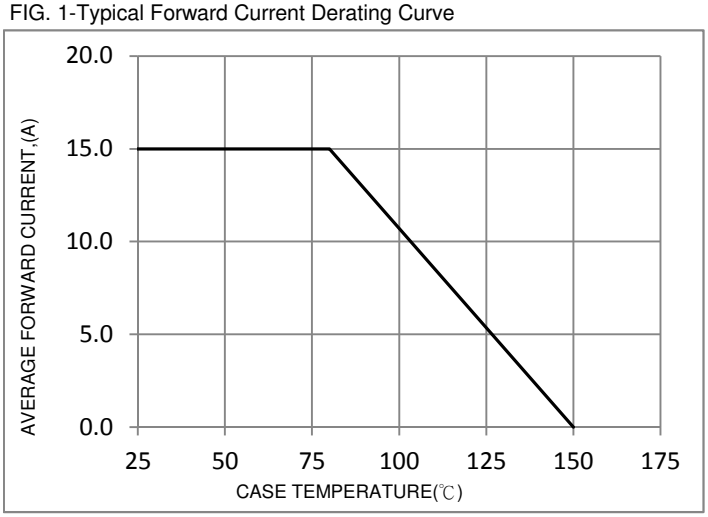


FIG. 2-Typical Forward Characteristics

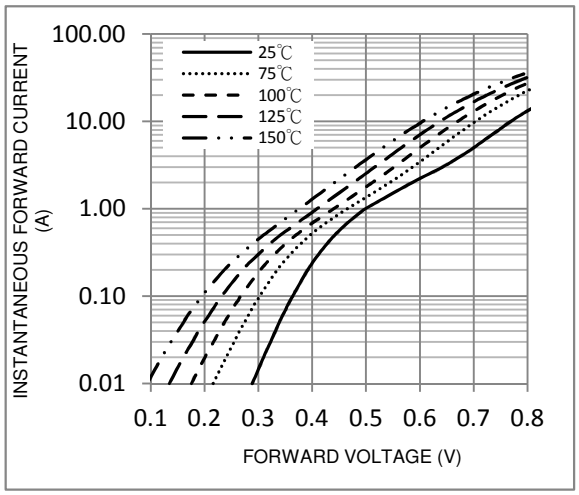


FIG. 3-Maximum Non-Repetitive Forward Surge Current

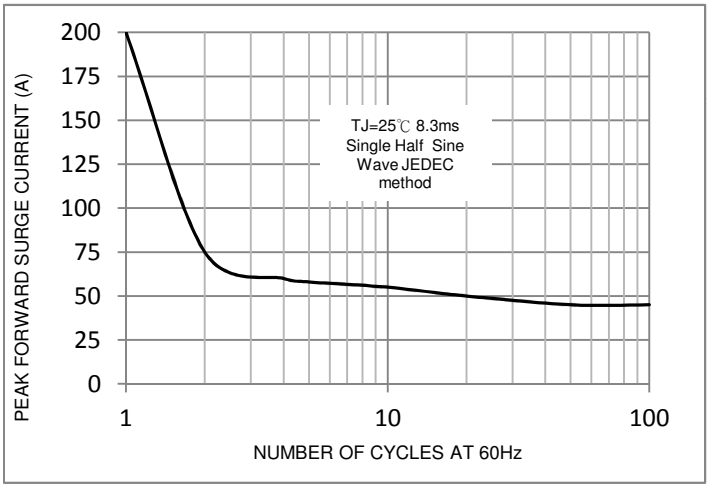


FIG. 4-Typical Reverse Characteristics

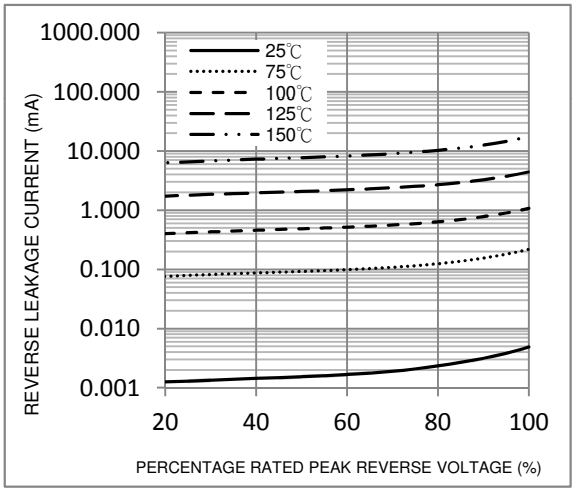
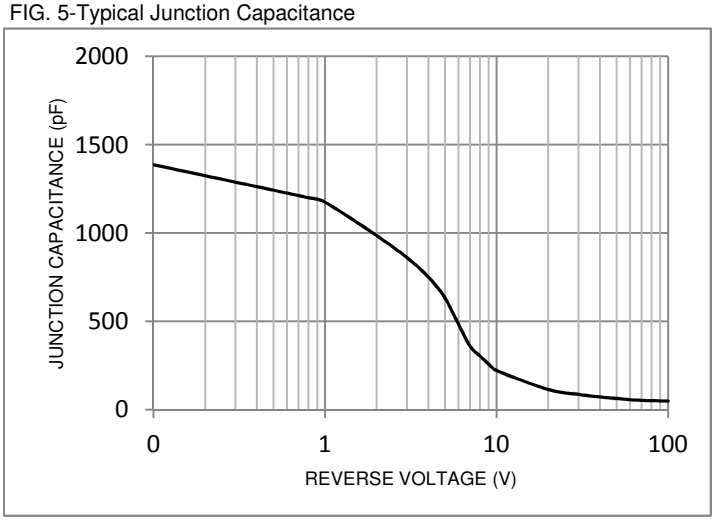


FIG. 5-Typical Junction Capacitance



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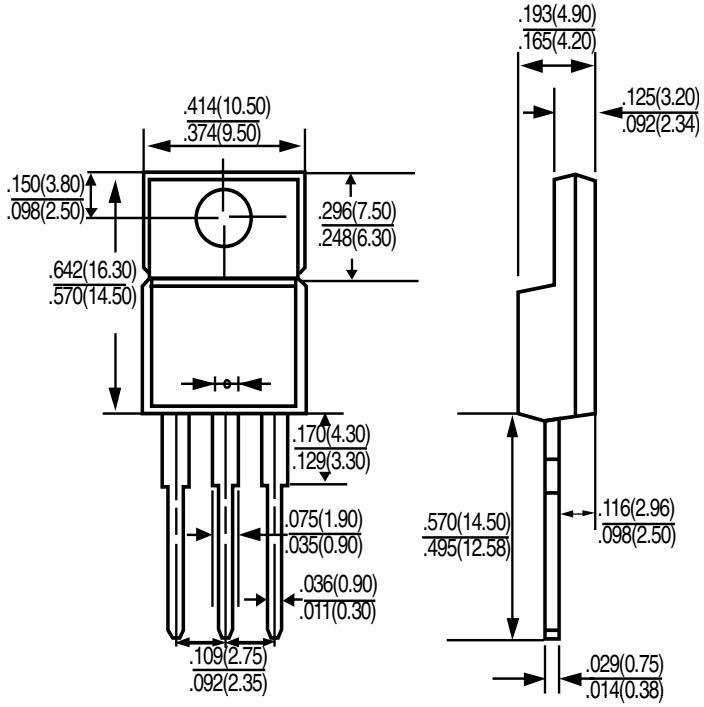
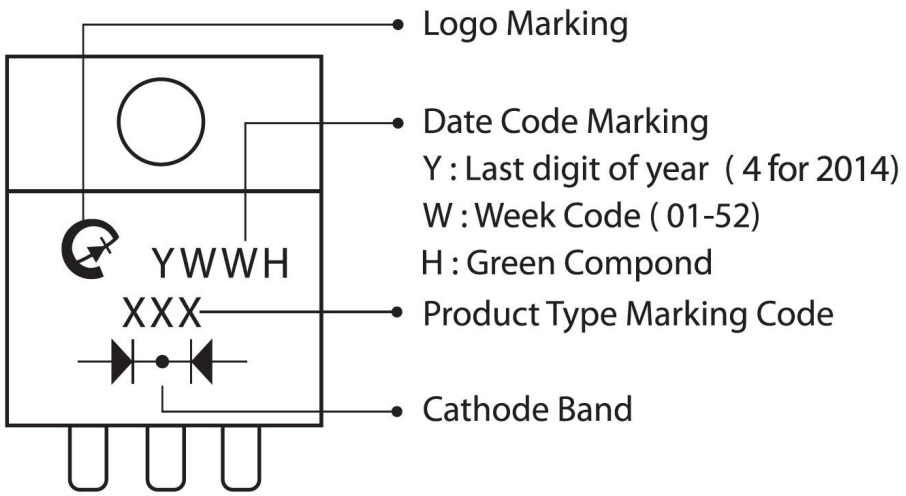
Package Outline Dimensions



ITO-220AB

Dimensions in inches and (millimeters)

Marking Information



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