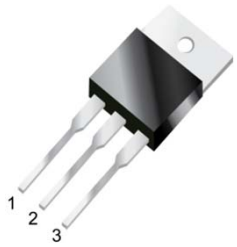
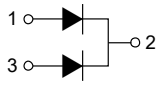
EBRT30L100CT

Excellent Barrier Rectifiers





TO-220AB

Primary Characteristics		
I_F	30	A
V_{RRM}	100	V
I_{FSM}	200	A
I_F=15A @ V_F	0.7	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：TO-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

Ordering Information

Part No.	Remark	Package	Packing
EBRT30L100CT	RoHS Compliant	TO-220AB	50 / Tube
EBRT30L100CT-H	Halogen Free		

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

Parameter	Symbol	EBRT30L100CT	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC Blocking Voltage	V_{DC}	100	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 (per Diode) IF=15A @ 25°C	V_F	0.7	V
Maximum DC Reverse Current @ TJ=25°C at Rated DC Blocking Voltage @ TJ=125°C	I_R	0.2 Max. 8.5 Typ.	mA
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 +150	°C
Marking Code		T30L100CT、30L100CT	

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

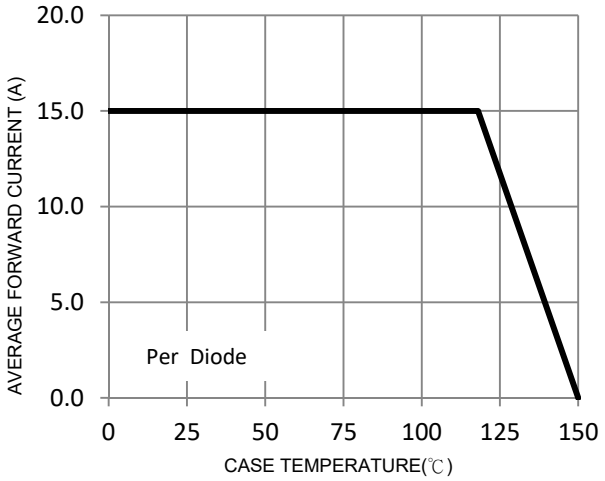


FIG. 2-Typical Forward Characteristics

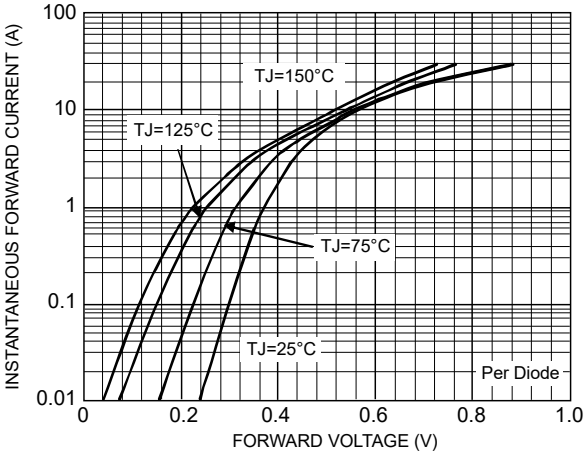


FIG. 3-Maximum Non-Repetitive Forward Surge Current

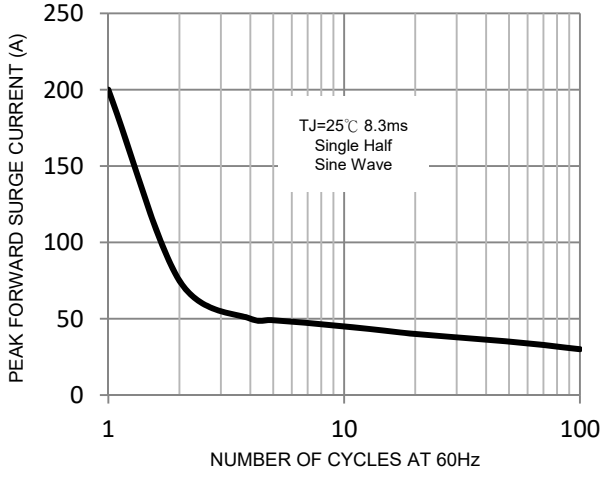


FIG. 4-Typical Reverse Characteristics

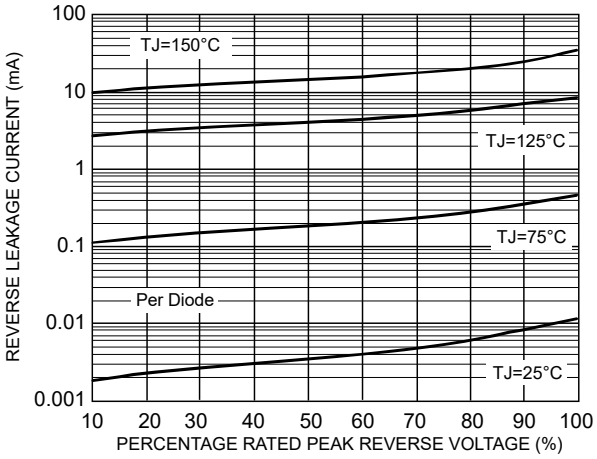
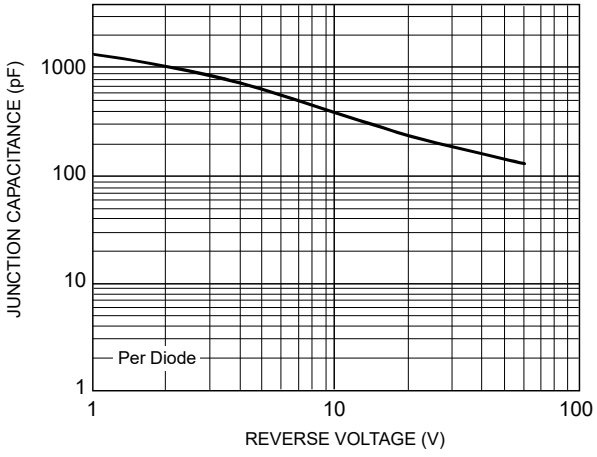
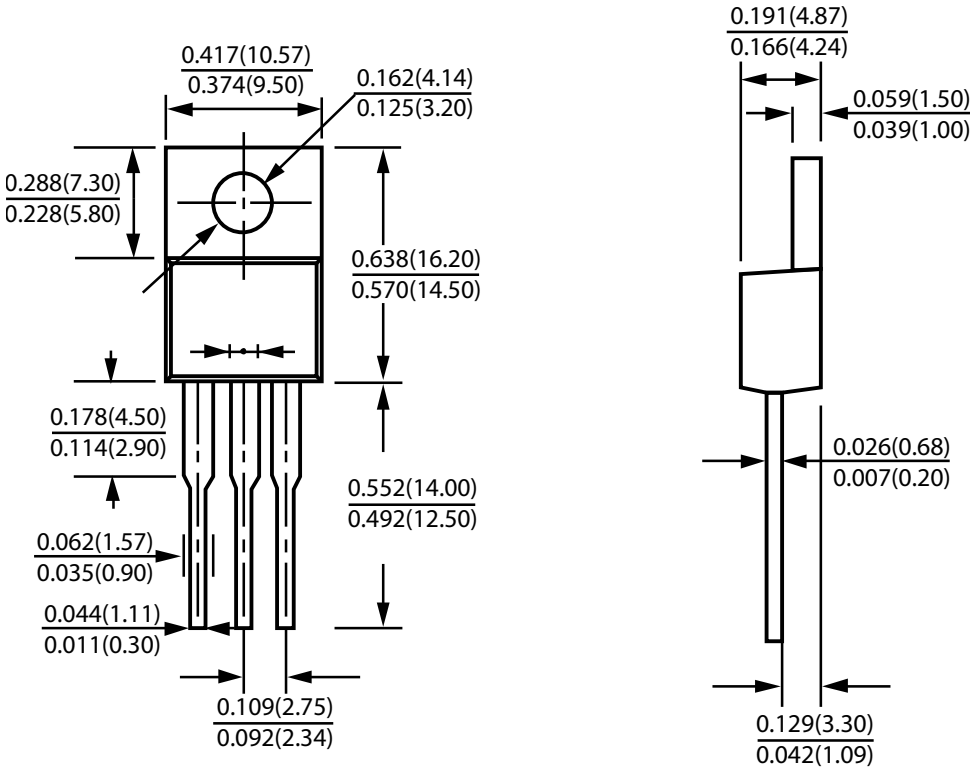


FIG. 5-Typical Junction Capacitance



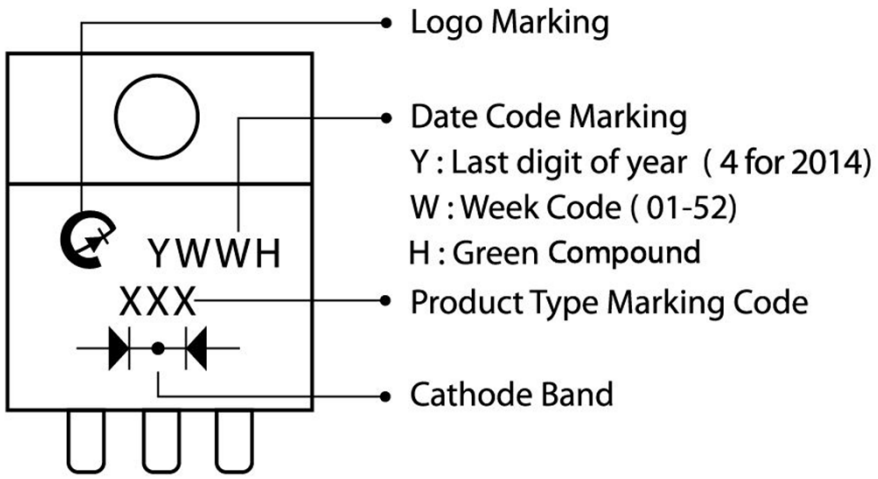
Package Outline Dimensions



TO-220AB

Dimensions in inches and (millimeters)

Marking Information



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