EBRP30L200CT

Excellent Schottky Barrier Rectifiers

TO-220AB

Primary Characteristics		
I_F	30	A
V_{RRM}	200	V
I_{FSM}	250	A
V_F	0.86	V
T_J max	175	°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
- Weight: 2.015 grams (approximate)

Ordering Information

Part No.	Remark	Package	Packing
EBRP30L200CT	General	TO-220AB	50 & 2000 / Tube & Box
EBRP30L200CT-H	Halogen Free		
EBRP30L200CT-Q	AEC Q101 qualified		

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

PARAMETER	SYMBOL	EBRP30L200CT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V_{RMS}	140	V
Maximum DC blocking voltage	V_{DC}	200	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}	250	A
Maximum Instantaneous Forward Voltage I_F=3A @ 25°C I_F=15A @ 25°C	V_F	 0.69 Typ. 0.86 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.01 1	mA
Typical Junction Capacitance(NOTE1)	C_j	220	pF
Typical Thermal Resistance	$R_{\theta JC}$	3	°C/W
Operating Temperature Range	T_J	-55 to +175	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C
Marking Code		P30L200CT、30L200CT	

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

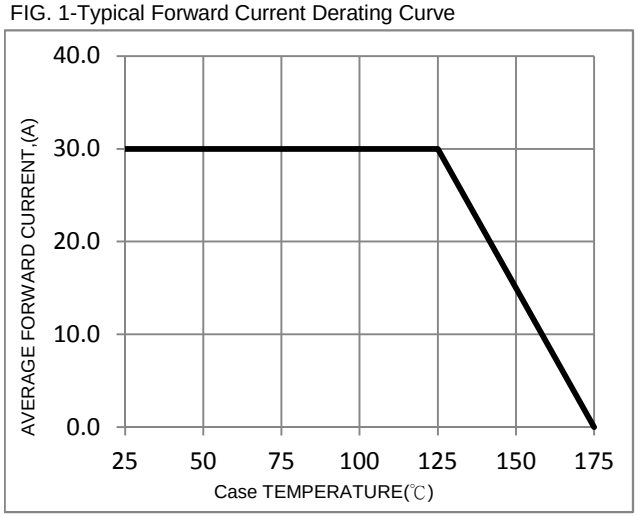


FIG. 2-Typical Forward Characteristics

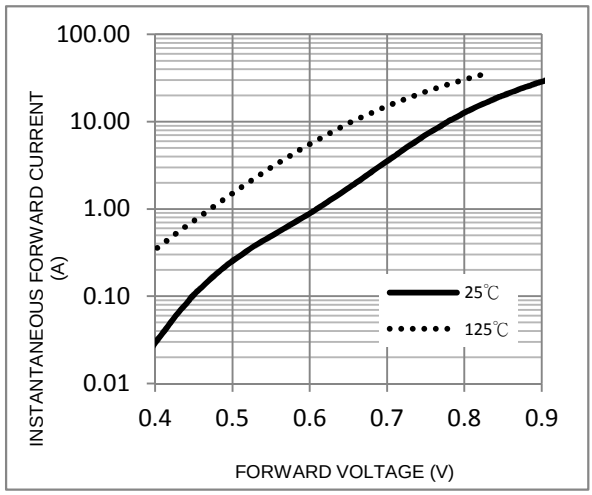


FIG. 3-Maximum Non-Repetitive Forward Surge Current

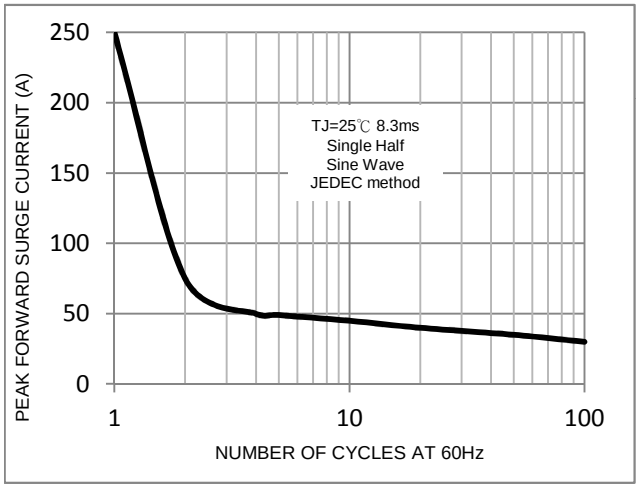


FIG. 4-Typical Reverse Characteristics

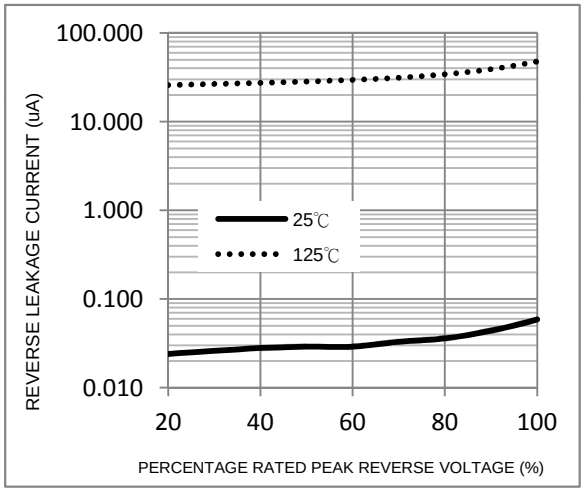
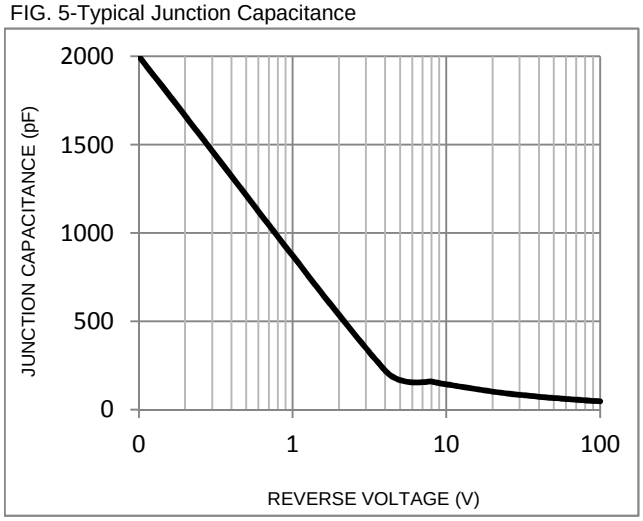


FIG. 5-Typical Junction Capacitance



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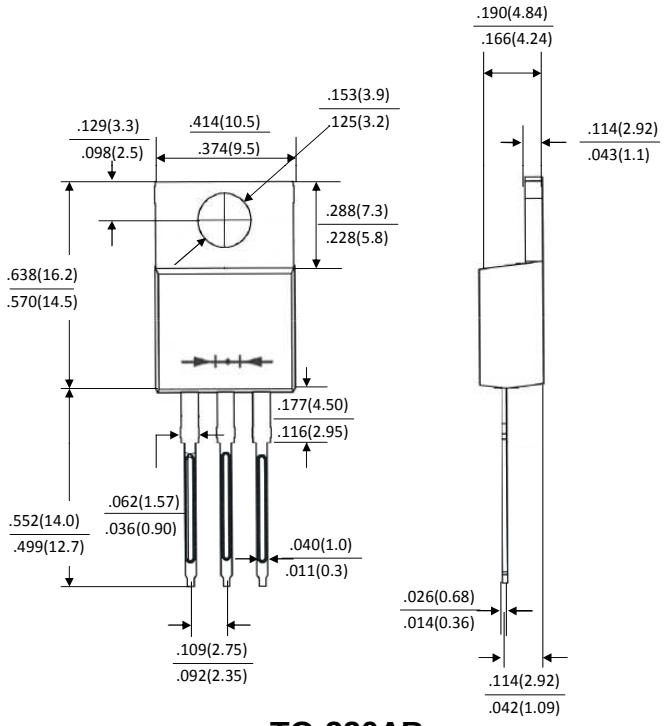
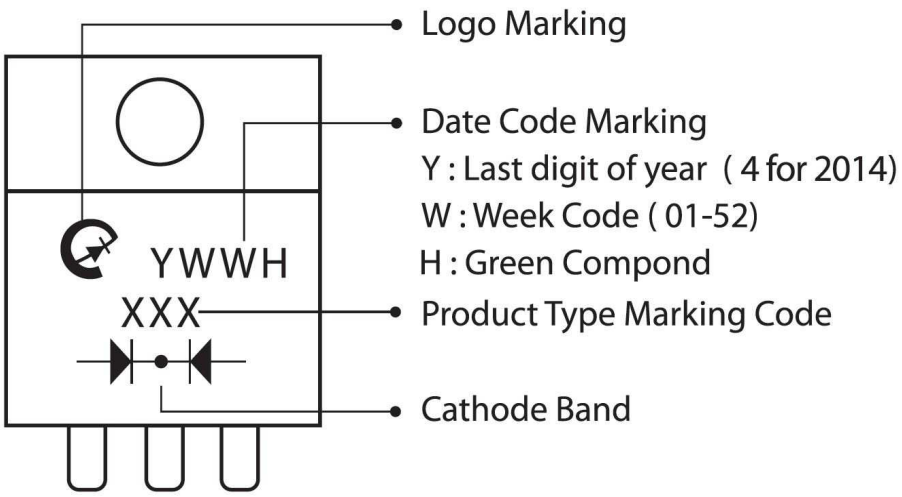
Package Outline Dimensions



TO-220AB

Dimensions in inches and (millimeters)

Marking Information



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