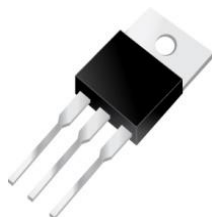




EBRP20M300CT



Excellent Schottky Barrier Rectifiers



TO-220AB

Primary Characteristics		
I_F	20	A
V_{RRM}	300	V
I_{FSM}	120	A
V_F	0.98	V
$T_J \text{ max}$	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 • Weight: 2.015 grams (approximate)

Ordering Information			
Part No.	Remark	Package	Packing
EBRP20M300CT	General	TO-220AB	50 & 2000 / Tube & Box
EBRP20M300CT-H	Halogen Free		

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRP20M300CT	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}	120	A
Maximum Instantaneous Forward Voltage $I_F=5A @ 25^\circ C$ $I_F=10A @ 25^\circ C$	V_F	0.80 Typ. 0.98 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.2 5	mA
Typical Junction Capacitance(NOTE1)	C_j	90	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		P20M300CT、20M300CT	

NOTES:

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



Excellent Schottky Barrier Rectifiers

Rating and Characteristics Curves

FIG. 1-Typical Forward Current Derating Curve

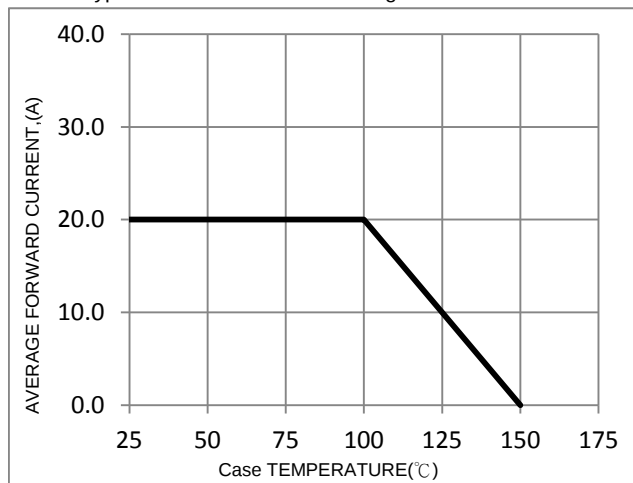


FIG. 2-Typical Forward Characteristics

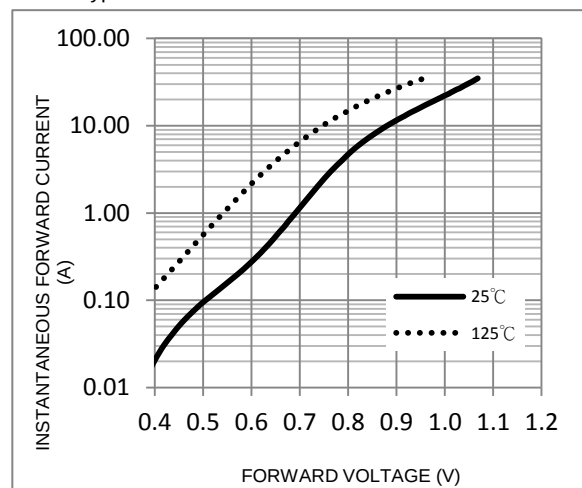


FIG. 3-Maximum Non-Repetitive Forward Surge Current

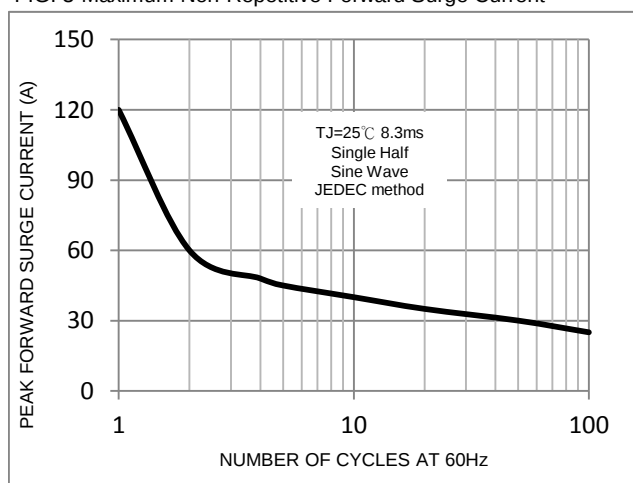


FIG. 4-Typical Reverse Characteristics

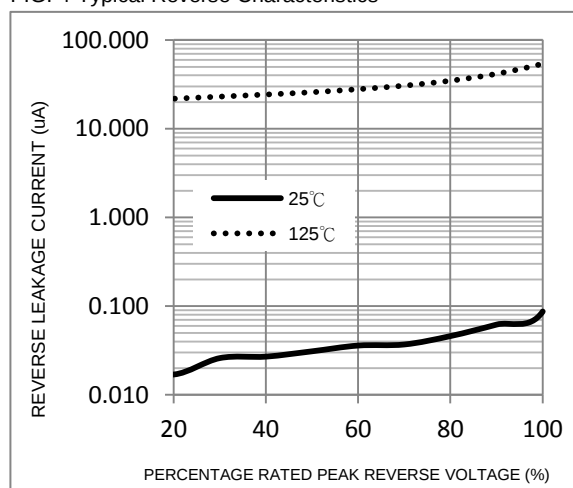
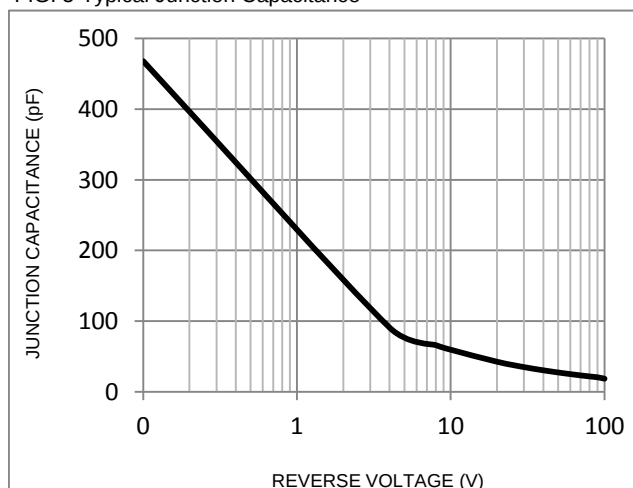


FIG. 5-Typical Junction Capacitance





Technical drawing of a mechanical part, showing a side view and a cross-sectional view. The drawing includes dimensions in inches and millimeters.

Side View Dimensions:

- Overall width: .189(4.82)
- Top width: .173(4.4)
- Top hole diameter: .129(3.3)
- Top hole offset: .1(2.54)
- Top hole diameter: .403(10.26)
- Top hole offset: .385(9.8)
- Top hole diameter: .153(3.9)
- Top hole offset: .145(3.7)
- Top hole diameter: .251(6.4)
- Top hole offset: .228(5.8)
- Top hole diameter: .624(15.87)
- Top hole offset: .578(14.7)
- Top hole diameter: .549(13.96)
- Top hole offset: .499(12.7)
- Top hole diameter: .057(1.45)
- Top hole offset: .046(1.16)
- Top hole diameter: .039(1.0)
- Top hole offset: .028(0.72)
- Top hole diameter: .177(4.50)
- Top hole offset: .140(3.56)
- Top hole diameter: .101(2.59)
- Top hole offset: .098(2.49)

Cross-sectional View Dimensions:

- Overall width: .189(4.82)
- Top width: .173(4.4)
- Top hole diameter: .129(3.3)
- Top hole offset: .1(2.54)
- Top hole diameter: .403(10.26)
- Top hole offset: .385(9.8)
- Top hole diameter: .153(3.9)
- Top hole offset: .145(3.7)
- Top hole diameter: .251(6.4)
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- Top hole offset: .028(0.72)
- Top hole diameter: .177(4.50)
- Top hole offset: .140(3.56)
- Top hole diameter: .101(2.59)
- Top hole offset: .098(2.49)

Dimensions in inches and (millimeters)

Diagram illustrating the marking on a 5-pin LED package:

- Logo Marking
- Date Code Marking
Y : Last digit of year (4 for 2014)
W : Week Code (01-52)
H : Green Compound
- Product Type Marking Code (XXX)
- Cathode Band