



EBRP10L200C



Excellent Schottky Barrier Rectifiers



DO-214AB(SMC)

Primary Characteristics		
I_F	10	A
V_{RRM}	200	V
I_{FSM}	15	A
V_F	0.9	V
T_J max	150	°C

Features
<ul style="list-style-type: none"> • High current capability • High surge current capability • Low reverse current • Component in accordance to RoHS 2002/95/EC

Mechanical Data
<ul style="list-style-type: none"> • Case: DO-214AB (SMC) • Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 • Terminals: Lead Free Plating (Tin Finish). Solderable per MIL-STD-202, Method 208 • Polarity: Cathode Band • Weight: 0.231 grams (approximate)

Ordering Information			
Part No.	Remark	Package	Packing
EBRP10L200C	General	SMC	3000 / Tape & Reel
EBRP10L200C-H	Halogen Free		
EBRP10L200C-Q	AEC-Q101 qualified		

Maximum Ratings ($T_A=25^\circ\text{C}$ unless otherwise noted)			
PARAMETER	SYMBOL	EBRP10L200C	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	I_F	10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum Instantaneous Forward Voltage $I_F=3\text{A @ }25^\circ\text{C}$ $I_F=10\text{A @ }25^\circ\text{C}$	V_F	0.73 Typ. 0.90 Max.	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	I_R	0.01 5	mA
Typical Junction Capacitance(NOTE1)	C_j	120	pF
Typical Thermal Resistance	$R_{\theta JC}$	10	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		P10L200C	

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

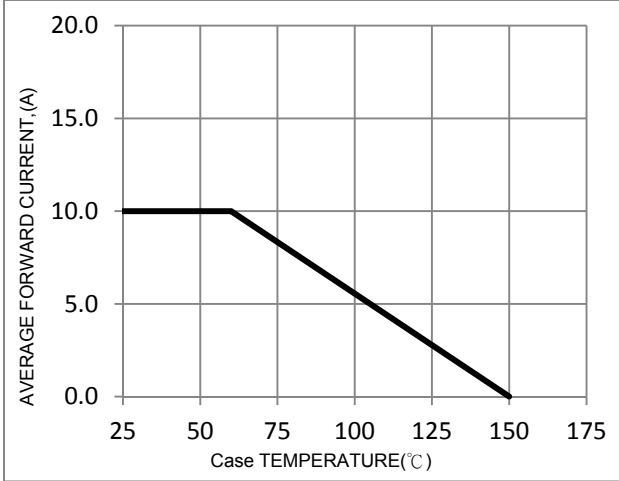


FIG. 2-Typical Forward Characteristics

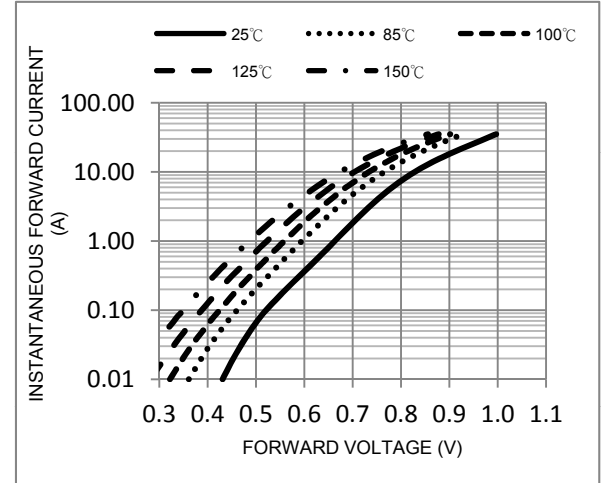


FIG. 3-Maximum Non-Repetitive Forward Surge Current

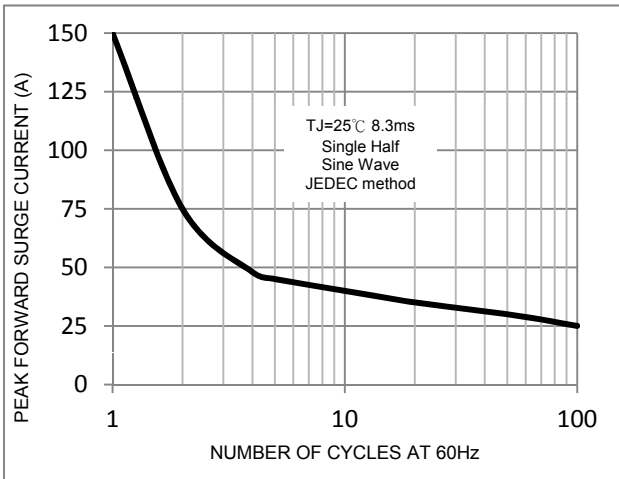


FIG. 4-Typical Reverse Characteristics

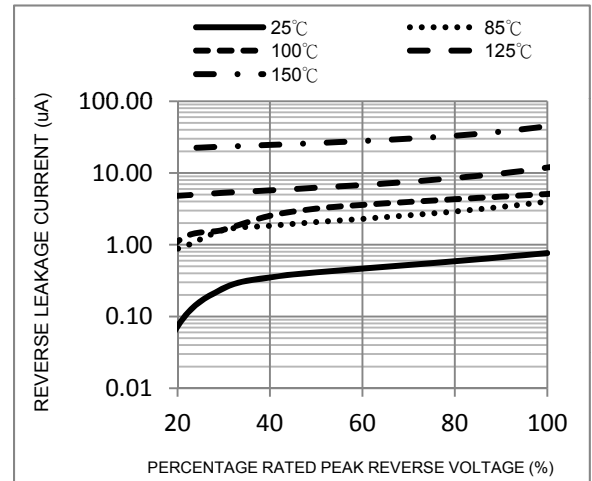
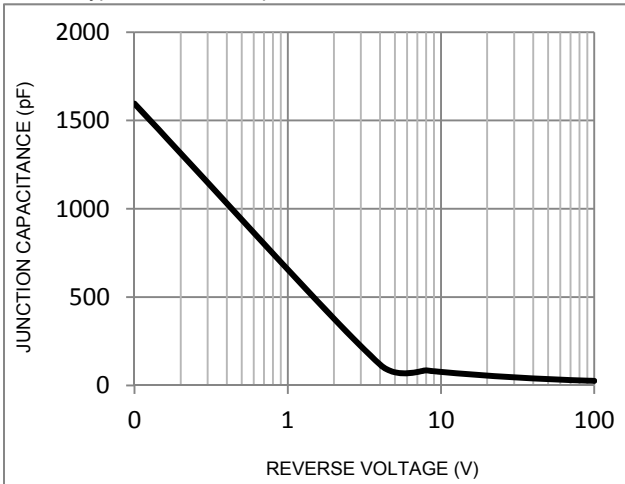


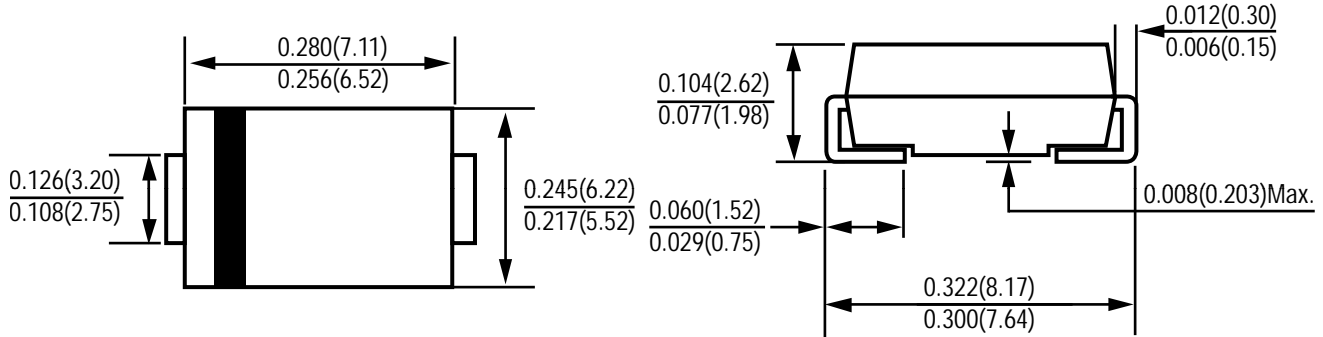
FIG. 5-Typical Junction Capacitance





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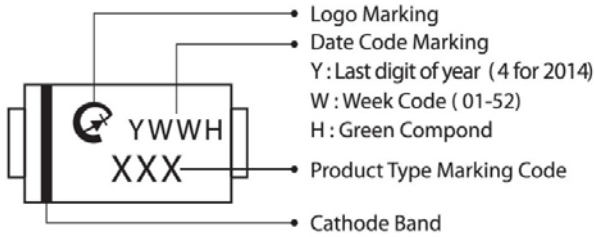
Package Outline Dimensions



DO-214AB(SMC)

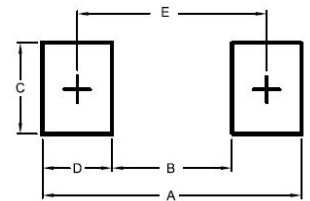
Dimensions in inches and (millimeters)

Marking Information



Suggested Pad Layout

Dimension	Outline	SMC (DO-214AB)
A		9.40
B		4.40
C		3.30
D		2.50
E		6.80



Tape & Reel Specification

ITEM	SYMBOL	SMC (mm)
		DO-214AB
Carrier width	A	6.3(max)
Carrier length	B	8.6(max)
Carrier depth	C	2.9(max)
Sprocket hole	d	1.50±0.1
Reel outside diameter	D	330±2.0
Feed hole diameter	D0	13.5±1
Reel inner diameter	D1	50 (min.)
Sprocket hole position	E	1.75±0.1
Punch hole position	F	7.5±0.05
Sprocket hole pitch	P	8.0±0.1
Sprocket hole pitch	Po	4.0±0.1
Embossment center	P1	2.0±0.05
Overall tape thickness	T	0.6 (max)
Tape width	W	16.0±0.3
Reel width	W2	22.4 (max)
Reel width	W1	18.4 (max)

