



# EBRT15L80C



## Excellent Schottky Barrier Rectifiers



DO-214AB(SMC)

Primary Characteristics		
$I_F$	15	A
$V_{RRM}$	80	V
$I_{FSM}$	250	A
$V_F$	0.65	V
$T_J \text{ max}$	150	°C

Features
<ul style="list-style-type: none"> <li>• Low profile package</li> <li>• Ideal for automated placement</li> <li>• Guard Ring for over voltage protection</li> <li>• Low forward voltage drop</li> <li>• Component in accordance to RoHS 2002/95/EC</li> </ul>

Mechanical Data
• 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
EBRT15L80C	General	SMC	3000 / Tape & Reel
EBRT15L80C-H	Halogen Free		
EBRT15L80C-Q	AEC-Q101 qualified		

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRT15L80C	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	80	V
Maximum RMS voltage	$V_{RMS}$	56	V
Maximum DC blocking voltage	$V_{DC}$	80	V
Maximum average forward rectified current	$I_F$	15	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	250	A
Maximum Instantaneous Forward Voltage IF=3A @ 25°C IF=15A @ 25°C	$V_F$	0.46 Typ. 0.65 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	$I_R$	0.2 10	mA
Typical Junction Capacitance(NOTE1)	$C_j$	1080	pF
Typical Thermal Resistance	$R_{\theta JC}$	6	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		T10L80C、10L80C	

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

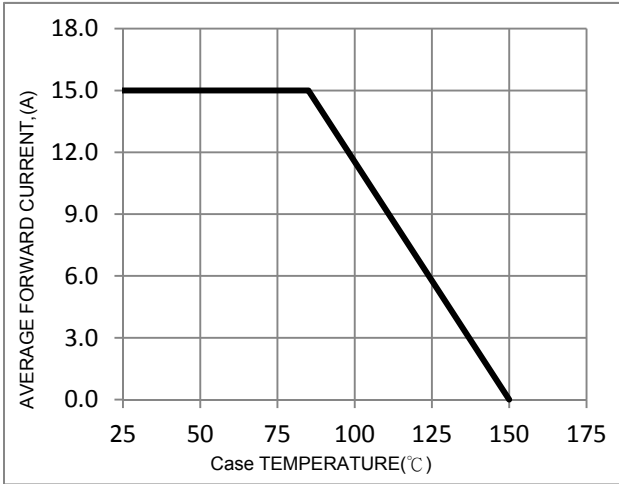


FIG. 2-Typical Forward Characteristics

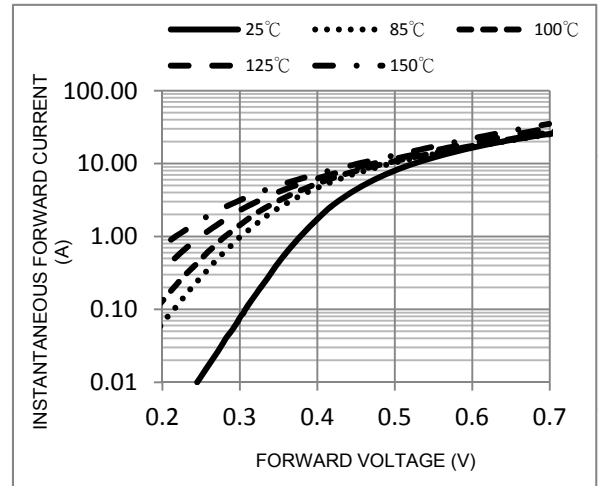


FIG. 3-Maximum Non-Repetitive Forward Surge Current

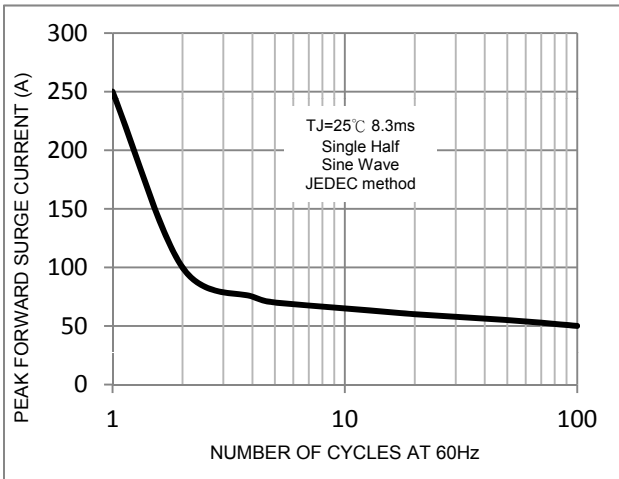


FIG. 4-Typical Reverse Characteristics

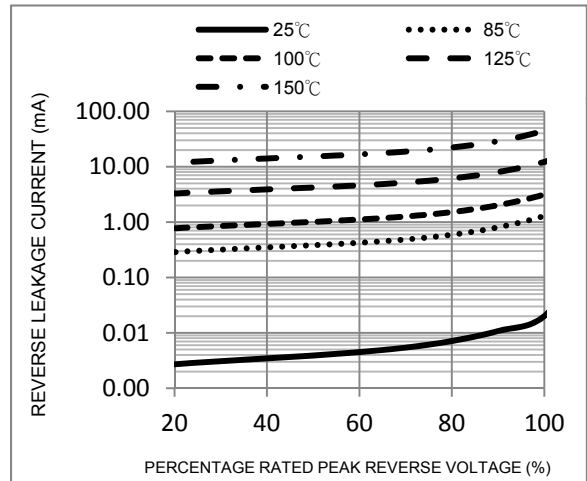
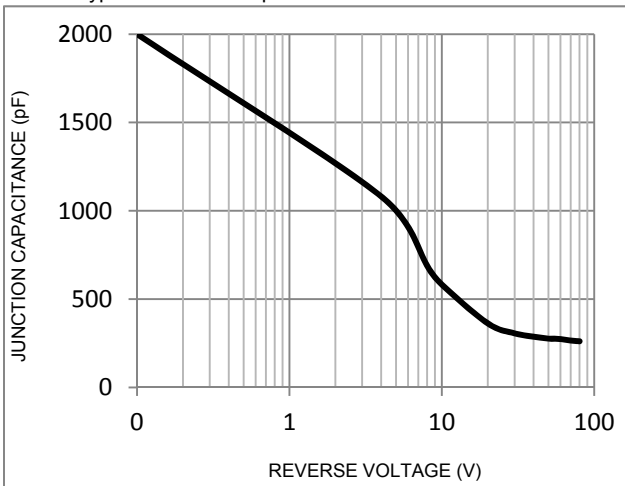


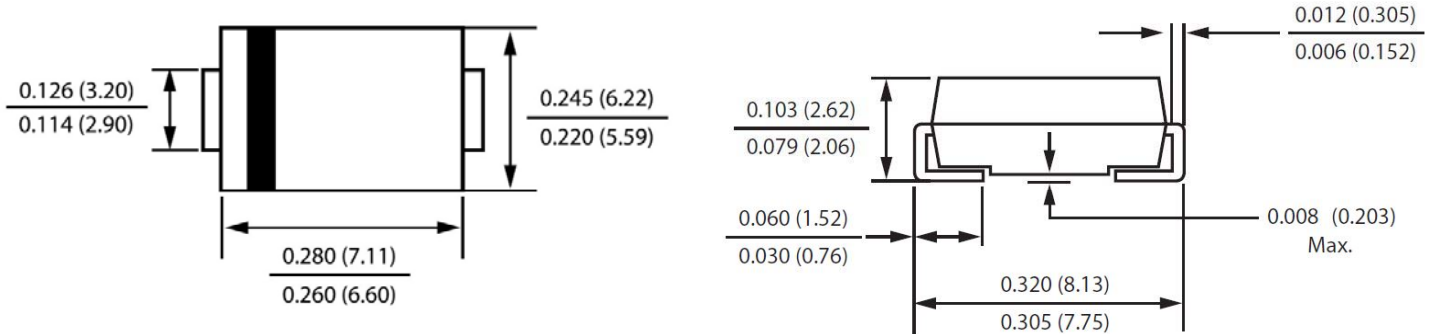
FIG. 5-Typical Junction Capacitance





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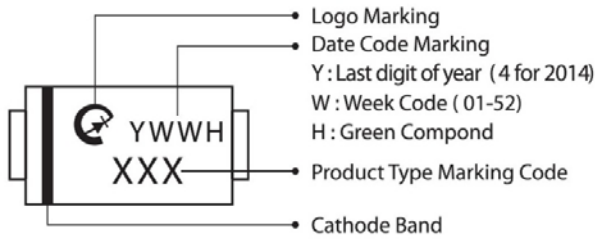
**Package Outline Dimensions**



**DO-214AB(SMC)**

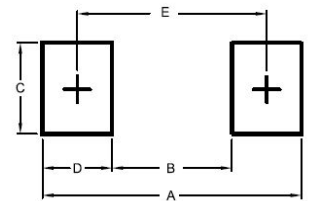
Dimensions in inches and (millimeters)

**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)

