



Excellent Schottky Barrier Rectifiers



DO-214AB(SMC)

Primary Characteristics

I_F	5	A
V_{RRM}	60	V
I_{FSM}	100	A
V_F	0.50	V
$T_J \text{ max}$	150	°C

Features

- Low profile package
- Ideal for automatic placement
- Guard Ring for over voltage protection
- Low forward voltage drop

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
EBRT5E60C	General	SMC	3000 / Tape & Reel
EBRT5E60C-H	Halogen Free		
EBRT5E60C-Q	AEC-Q101 qualified		

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

PARAMETER	SYMBOL	EBRT5E60C	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	I_F	5.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0	A
Maximum Instantaneous Forward Voltage $I_F=2A @ 25^\circ C$ $I_F=5A @ 25^\circ C$	V_F	0.36 Typ. 0.50 Max.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.5 15	mA
Typical Junction Capacitance (NOTE1)	C_j	330	pF
Typical Thermal Resistance	$R_{\theta JC}$	25	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		T5E60C、5E60C	

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

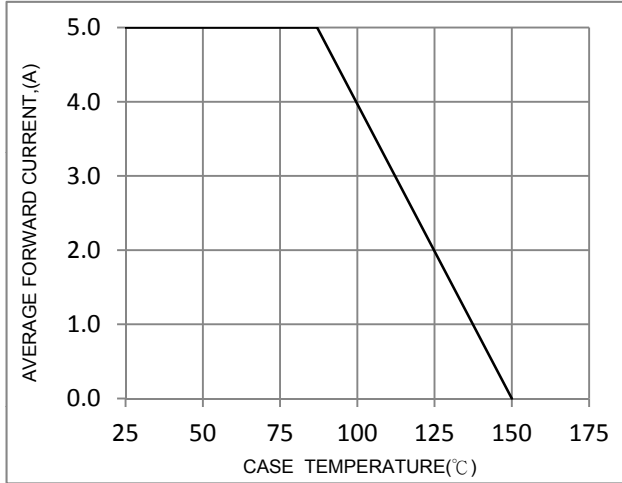


FIG. 2-Typical Forward Characteristics

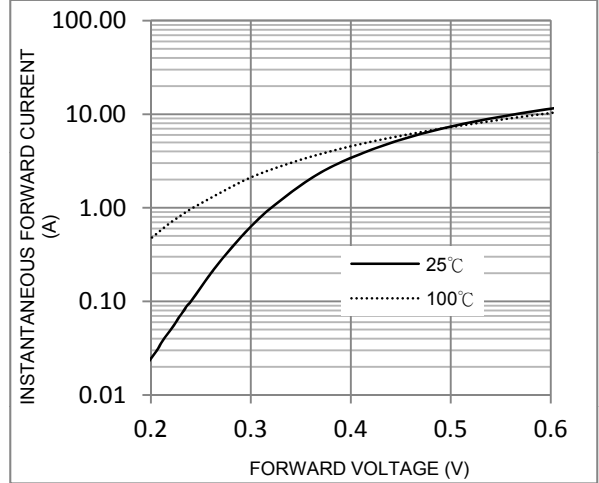


FIG. 3-Maximum Non-Repetitive Forward Surge Current

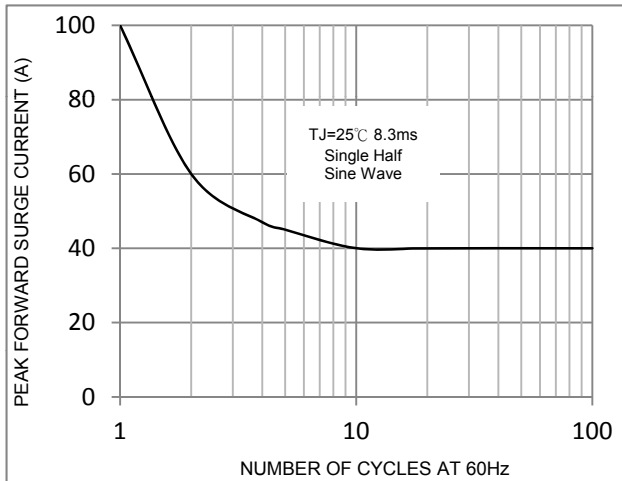


FIG. 4-Typical Reverse Characteristics

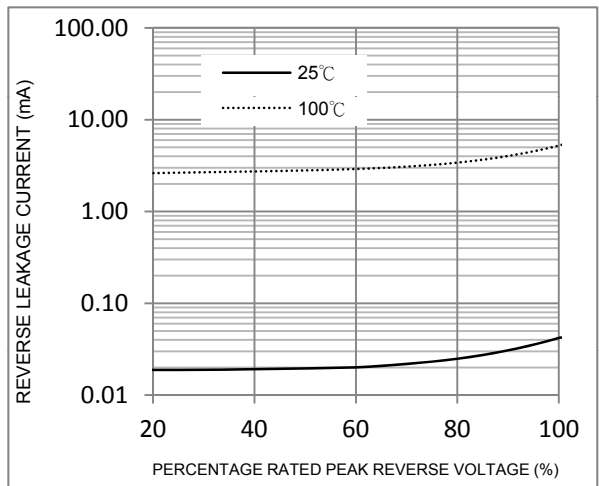
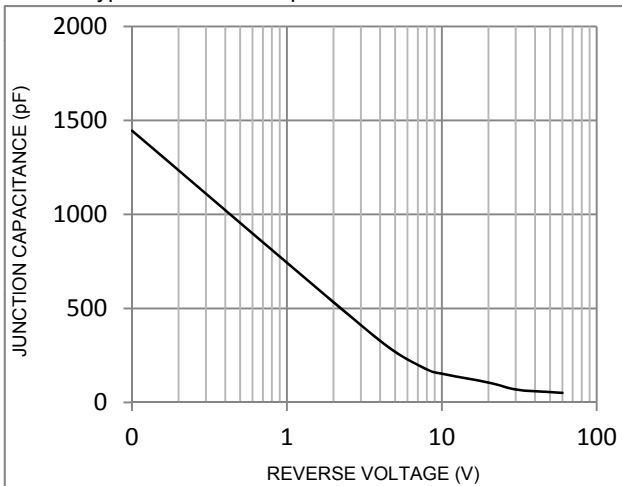


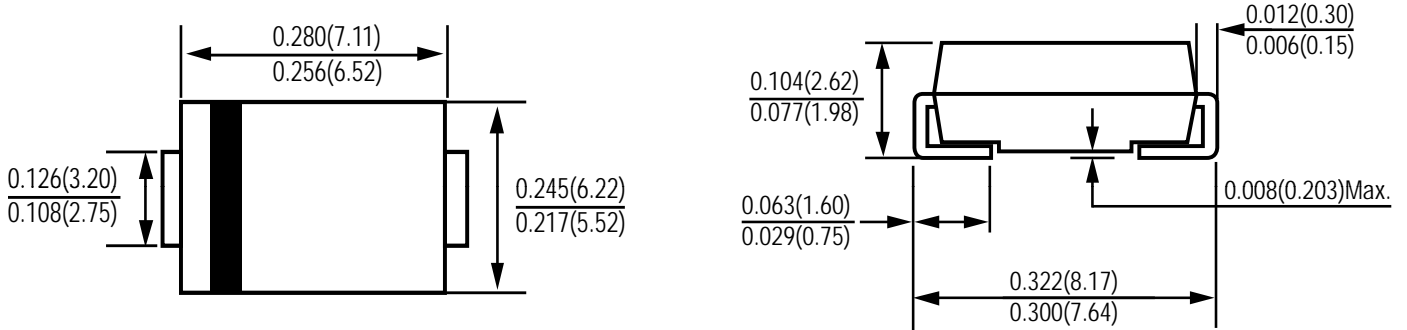
FIG. 5-Typical Junction Capacitance





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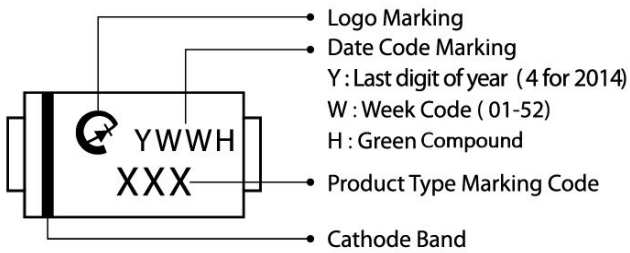
Package Outline Dimensions



DO-214AB(SMC)

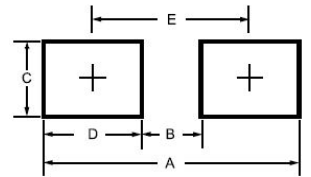
Dimensions in inches and (millimeters)

Marking Information



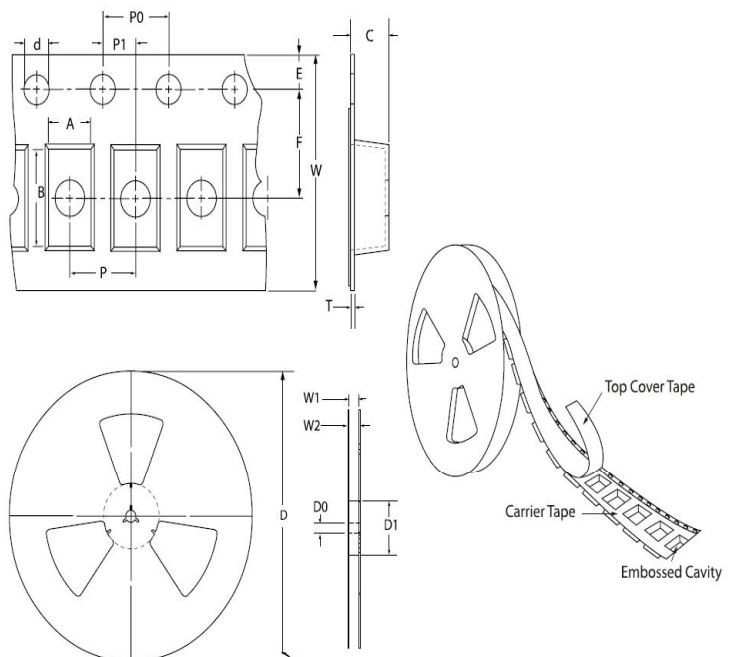
Suggested Pad Layout

Outline Dimension	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±0.1
Sprocket hole pitch	P	8.0±0.1
Sprocket hole pitch	P0	4.0±0.1
Embossment center	P1	2.0±0.1
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)





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