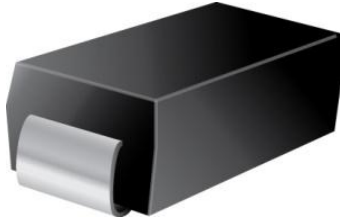




# EBRT5E60A



## Excellent Schottky Barrier Rectifiers



DO-214AC(SMA)

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

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

Mechanical Data
<ul style="list-style-type: none"> <li>• Cases:DO-214AC(SMA)</li> <li>• Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0</li> <li>• Terminals: Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208</li> <li>• Polarity: Cathode Band</li> <li>• Weight: 0.062 grams (approximate)</li> </ul>

Ordering Information			
Part No.	Remark	Package	Packing
EBRT5E60A	General	SMA	5000 / Tape & Reel
EBRT5E60A-H	Halogen Free		
EBRT5E60A-Q	AEC-Q101 qualified		

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRT5E60A	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 IF=2A @ 25°C IF=5A @ 25°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	$R_{\theta JC}$	30	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		T5E60A、5E60A	

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

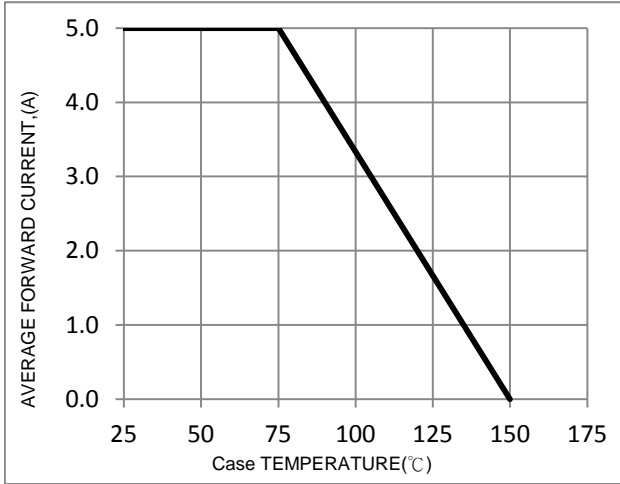


FIG. 2-Typical Forward Characteristics

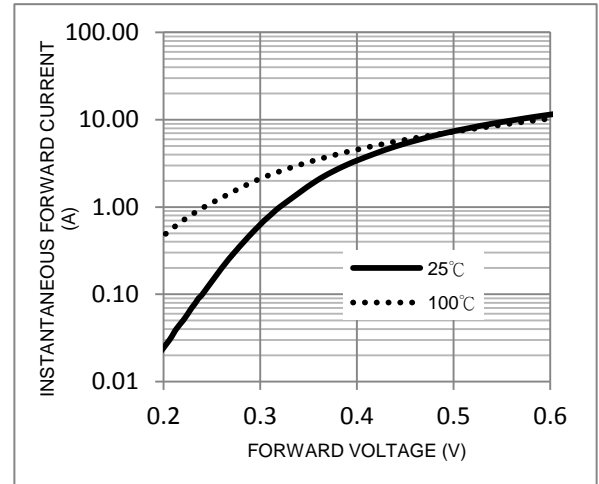


FIG. 3-Maximum Non-Repetitive Forward Surge Current

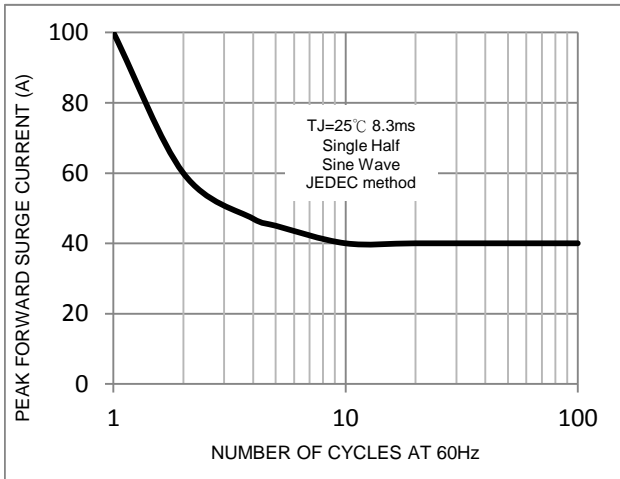


FIG. 4-Typical Reverse Characteristics

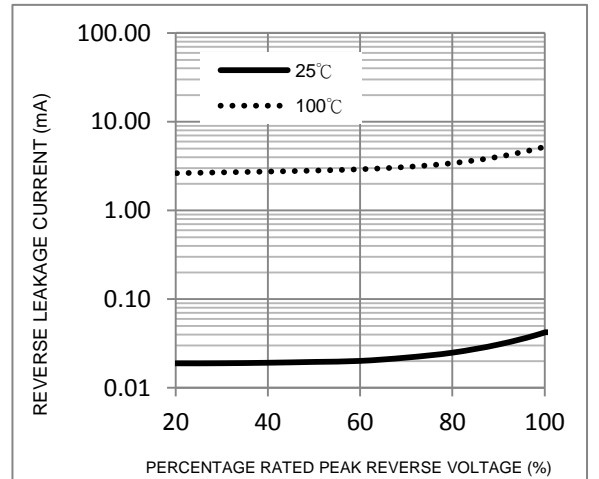
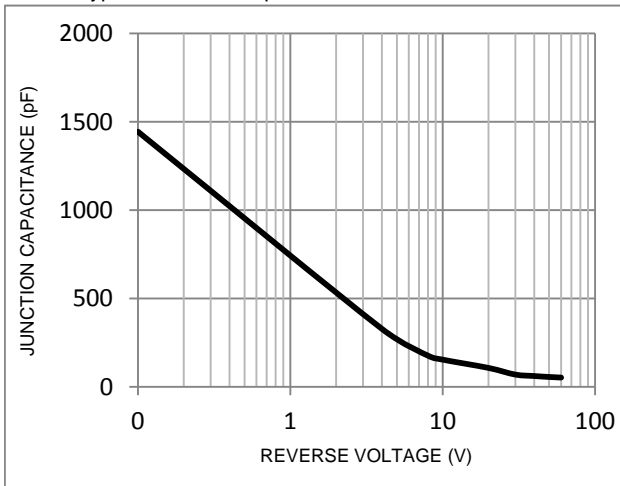


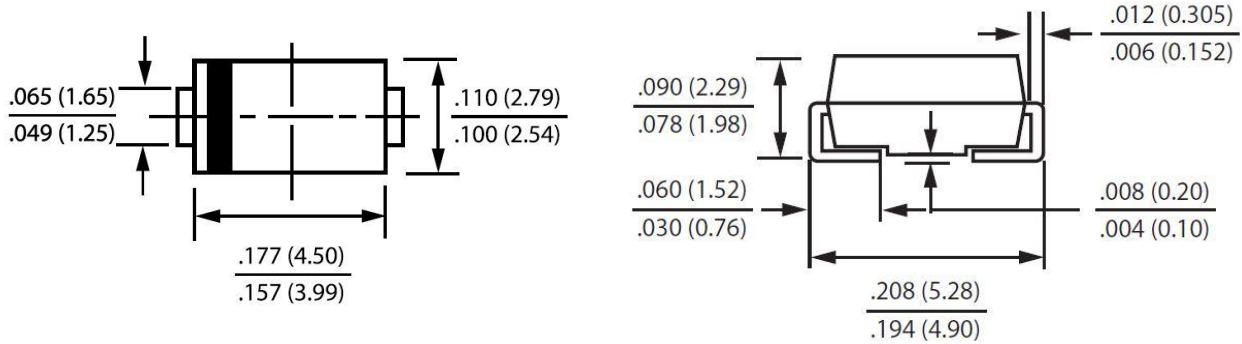
FIG. 5-Typical Junction Capacitance





## Excellent Schottky Barrier Rectifiers

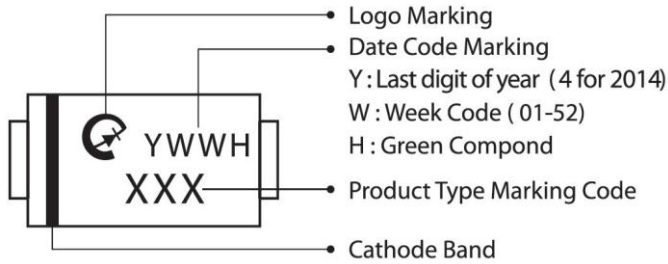
### Package Outline Dimensions



### DO-214AC(SMA)

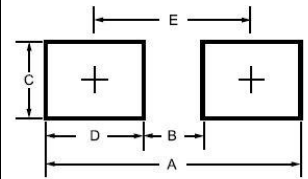
Dimensions in inches and (millimeters)

### Marking Information



### Suggested Pad Layout

Dimension	Outline	SMA (DO-214AC)
A		6.50
B		1.50
C		1.70
D		2.50
E		4.00



### Tape & Reel Specification

ITEM	SYMBOL	SMA(mm) DO-214AC
Carrier width	A	2.9(max)
Carrier length	B	5.9(max)
Carrier depth	C	2.66(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	5.5±0.05
Sprocket hole pitch	P	4.0±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	12.0±0.3
Reel width	W2	18.4 (max)
Reel width	W1	14.4 (max)

