



EBRT3E150AF



Excellent Schottky Barrier Rectifiers



DO-221AC(SMAF)

Primary Characteristics

I_F	3	A
V_{RRM}	150	V
I_{FSM}	80	A
V_F	0.8	V
T_J max	150	°C

Features

- High current capability
- High surge current capability
- Low reverse current

Mechanical Data

- Case : DO-221AC(SMAF)
- 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

Ordering Information

Part No.	Remark	Package	Packing
EBRT3E150AF	RoHS Compliant	SMAF	10000 / Tape & Reel
EBRT3E150AF-H	Halogen Free		
EBRT3E150AF-Q	AEC-Q101 qualified		

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

Parameter	Symbol	EBRT3E150AF	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Maximum RMS Voltage	V_{RMS}	105	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current	I_F	3	A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load	I_{FSM}	80	A
Maximum Instantaneous Forward Voltage $I_F=3A$ @ 25°C	V_F	0.8	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I_R	0.2 10	mA
Typical Junction Capacitance (NOTE1)	C_J	170	pF
Typical Thermal Resistance	$R_{\theta JC}$	40	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		T3E150AF、3E150AF	

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

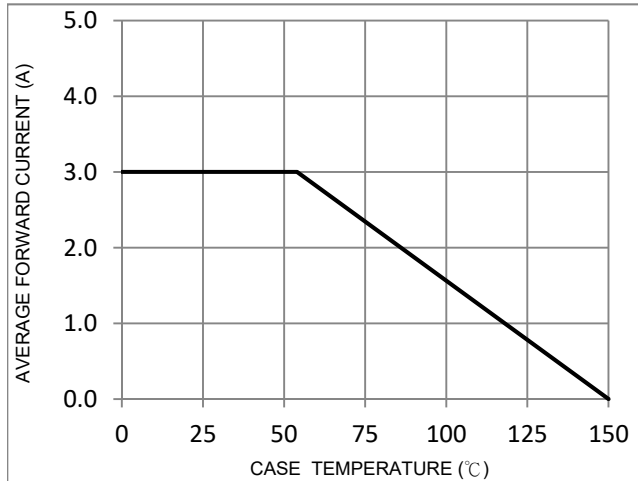


FIG. 2-Typical Forward Characteristics

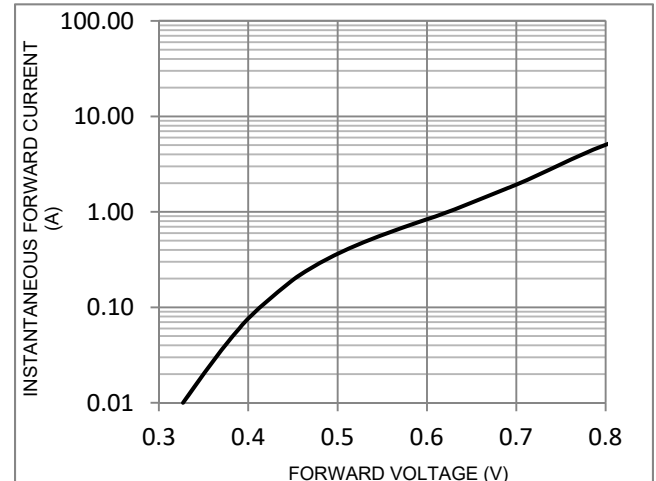


FIG. 3-Maximum Non-Repetitive Forward Surge Current

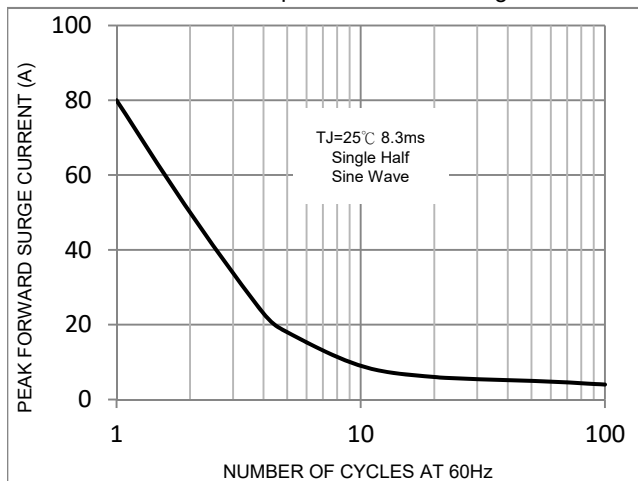


FIG. 4-Typical Reverse Characteristics

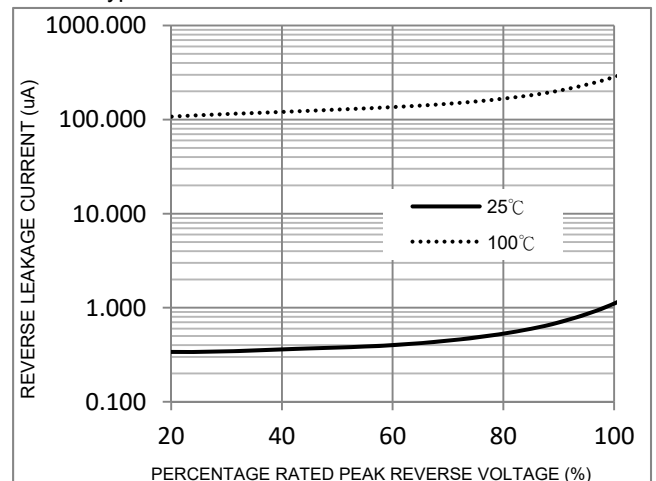
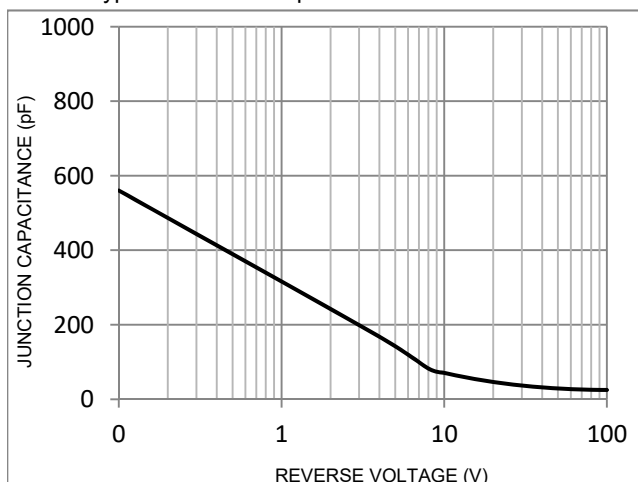


FIG. 5-Typical Junction Capacitance



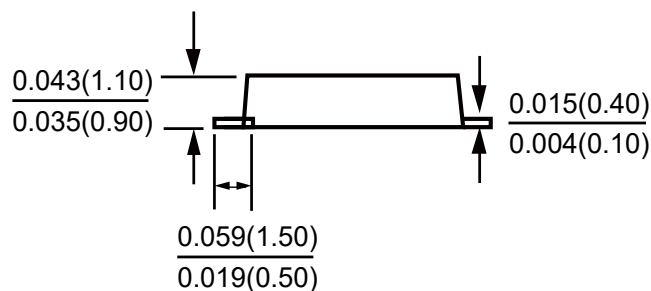
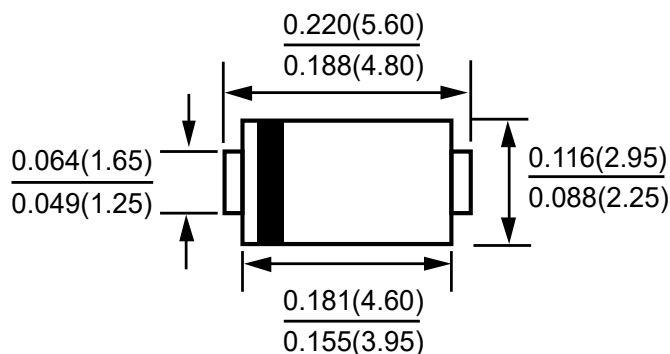


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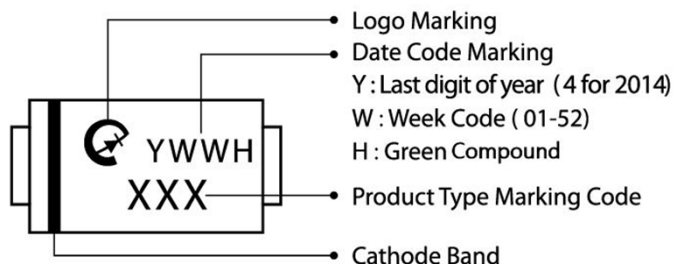
Package Outline Dimensions



DO-221AC(SMAF)

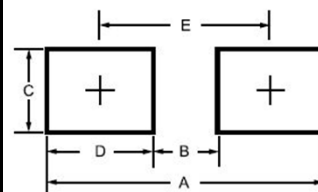
Dimensions in inches and (millimeters)

Marking Information



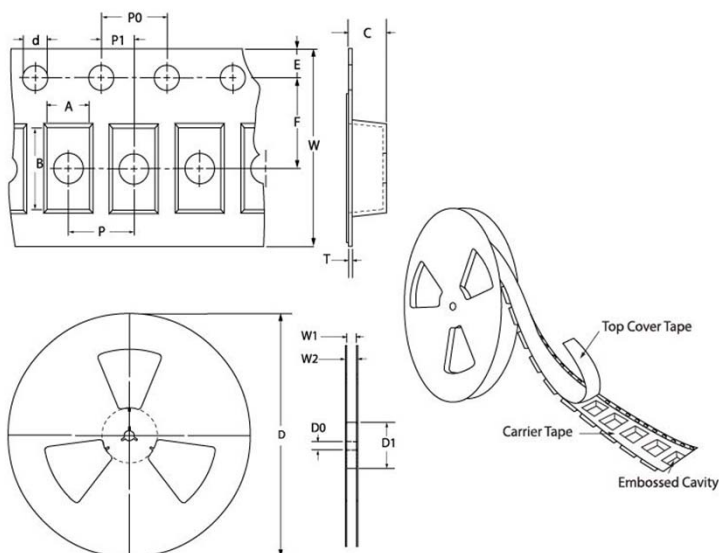
Suggested Pad Layout

Outline Dimension	SMAF (DO-221AC)
A	6.50
B	1.50
C	1.70
D	2.50
E	4.00



Tape & Reel Specification

Item	Symbol	SMAF(mm) DO-221AC
Carrier width	A	3 ± 0.1
Carrier length	B	5.6 ± 0.1
Carrier depth	C	1.2 ± 0.1
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	P0	4.0 ± 0.05
Embossment center	P1	2.0 ± 0.05
Overall tape thickness	T	0.25 ± 0.05
Tape width	W	12.0 ± 0.2
Reel width	W2	18.4 (max)
Reel width	W1	14.4 (max)





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