





DO-221AC(SMAF)

Features

High current capability

High surge current capability

Low reverse current

Excellen Schottky Barrier Rectifiers

Primary Characteristics

I _F	3	А
V _{RRM}	100	V
I _{FSM}	80	А
V _F	0.6	V
T _J max	150	°C

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
- Weight: 0.035 grams (approximate)

Ordering Information				
Part No.	Remark	Package	Packing	
EBRT3E100AF	General			
EBRT3E100AF-H	EBRT3E100AF-H Halogen Free		10000 / Tape & Reel	
EBRT3E100AF-Q	AEC-Q101 qualified			

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

PARAMETER	SYMBOL	EBRT3E100AF	UNIT
Maximum repetitive peak reverse voltage	V _{RRM}	100	V
Maximum RMS voltage	V _{RMS}	70	V
Maximum DC blocking voltage	V _{DC}	100	V
Maximum average forward rectified current	I _F	3	А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80	А
Maximum Instantaneous Forward Voltage IF=3A @ 25°C	V _F	0.54 Тур. 0.60 Мах.	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I _R	0.5 10	mA
Typical Junction Capacitance(NOTE1)	Cj	400	pF
Typical Thermal Resistance	R _{θJC}	35	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Marking Code		T3E100AF \ 3E100AF	

NOTES:

1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC



Pb RoHS

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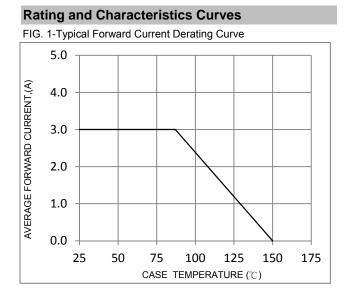


FIG. 3-Maximum Non-Repetitive Forward Surge Current

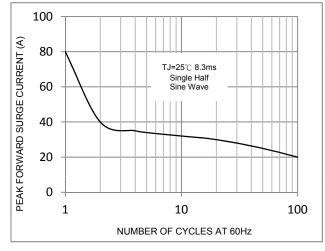
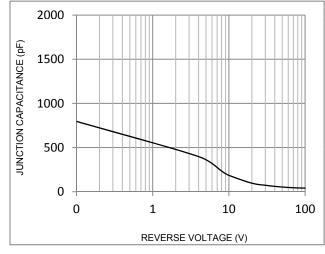


FIG. 5-Typical Junction Capacitance



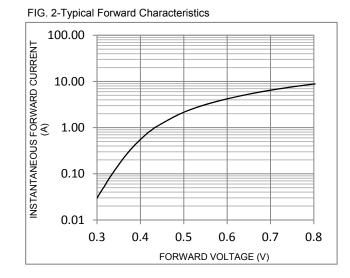
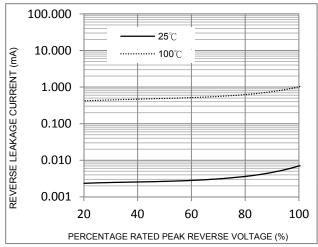


FIG. 4-Typical Reverse Characteristics



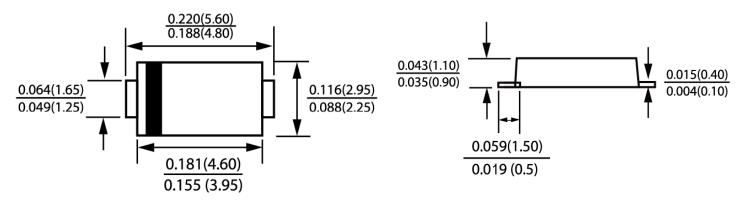




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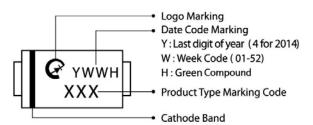
Package Outline Dimensions



DO-221AC(SMAF)

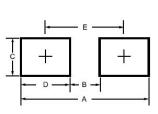
Dimensions in inches and (millimeters)

Marking Information



Suggested Pad Layout

Dimension	Outline	SMAF (DO-221AC)
А		6.50
В		1.50
С		1.70
D		2.50
E		4.00



Tape & Reel Specification				
ITEM	SYMBOL	SMAF(mm)		
	STWBOL	DO-221AC		
Carrier width	А	3±0.1		
Carrier length	В	5.6±0.1		
Carrier depth	С	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	Р	4.0±0.1		
Sprocket hole pitch	P0	4.0±0.05		
Embossment center	P1	2.0±0.05		
Overall tape thickness	Т	0.25±0.05		
Tape width	W	12.0±0.2		
Reel width	W2	18.4 (max)		
Reel width	W1	14.4 (max)		

w W2 D0 1 Carrier Tape

Top Cover Tape

Embossed Cavity





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