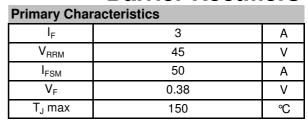


EBRT3X45AFC



Excellent Schottky Barrier Rectifiers





SMAF-S

Features

- · For surface mounted application
- · Low forward voltage drop
- · High current capability
- · High reliability
- · Classification Rating 94V- 0

Mechanical Data

- · Case: Moeded plastic SMAF-S
- Terminals: Plated leads solderable per MIL-STD-750,Method 2026 guaranteed
- Polarity:Cathode Band or Cathode Notch
- Mounting position: AnyMaking: Type Number

Ordering Information							
Part No.	Remark	Package	Packing				
EBRT3X45AFC	General						
EBRT3X45AFC-H	Halogen Free	SMAF-S	10000 / Tape & Reel				
EBRT3X45AFC-Q	AEC-Q101 qualified						

Maximum Ratings (TA=25 ℃ unless otherwise noted)					
PARAMETER	SYMBOL	EBRT3X45AFC	UNIT		
Maximum repetitive peak reverse voltage	V _{RRM}	45	V		
Maximum RMS voltage	V _{RMS}	31.5	V		
Maximum DC blocking voltage	V _{DC}	45	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}	50	А		
Maximum Instantaneous Forward Voltage IF=3A @ 25 ℃	V _F	0.38 Max.	V		
Maximum DC Reverse Current @ TA=25 ℃ at Rated DC Blocking Voltage @ TA=100 ℃	I _R	0.2 15	mA		
Typical Junction Capacitance(NOTE1)	C _j	350	pF		
Typical Thermal Resistance	$R_{\theta JC}$	35	°C/W		
Operating Temperature Range	T _J	-55 to +150	∞		
Storage Temperature Range	T _{STG}	-55 to +150	∞		
Marking Code		T3X45AFC、3X45AFC			

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

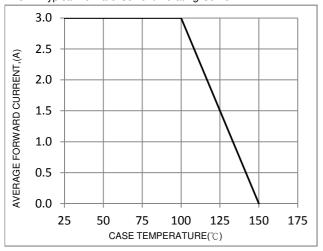


FIG. 3-Maximum Non-Repetitive Forward Surge Current

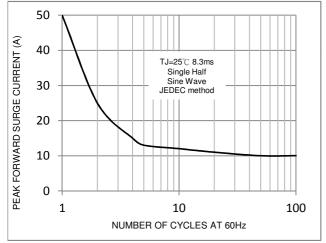


FIG. 5-Typical Junction Capacitance

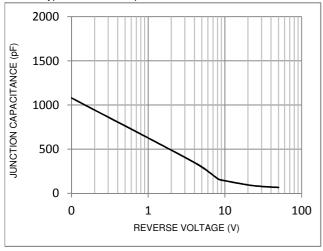


FIG. 2-Typical Forward Characteristics

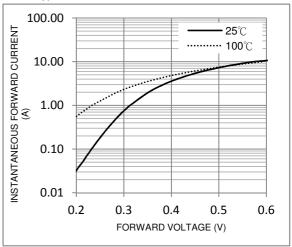
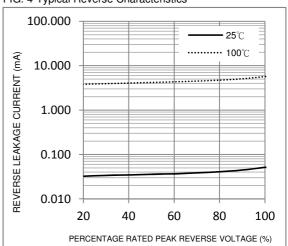


FIG. 4-Typical Reverse Characteristics



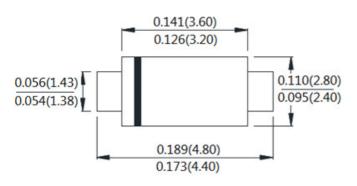


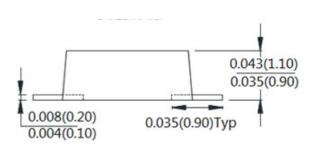
EBRT3X45AFC



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Package Outline Dimensions

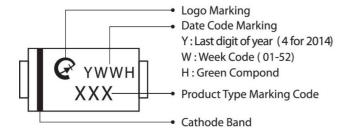




SMAF-S

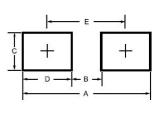
Dimensions in inches and (millimeters)

Marking Information



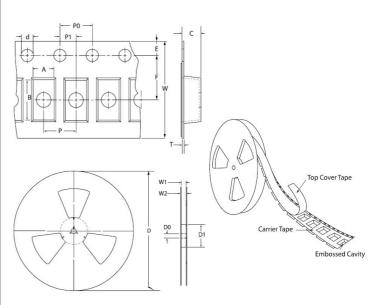
Suggested Pad Layout

Dimension	Outline	SMAF-S (mm)
Α		5.40
В		2.20
С		1.50
D		1.60
E		-



Tap & Reel Specification

Item	Symbol	Dimension
item	Syllibol	Unit (mm)
Carrier width	Α	2.83 ±0.1
Carrier length	В	4.75 ±0.1
Carrier depth	С	1.42 ±0.1
Sprocket hole	d	1.55 ±0.05
Reel outside diameter	D	330±1.0
Feed hole diameter	D0	13+0.5/-0
Reel inner diameter	D1	100 ±0.5
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	Po	4.0±0.1
Embossment center	P1	2.0±0.05
Overall tape thickness	Т	0.25 ±0.05
Tape width	W	12.4+0.5/-0
Reel width	W1	18.4Max.







Excellent Schottky Barrier Rectifiers

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