

Pb RoHS



DO-214AA(SMB)

Features

- High current capability
- High surge current capability
- Low reverse current
- Component in accordance to RoHS 2002/95/EC

Excellent Schottky Barrier Rectifiers

Primary Characteristics

I _F	8	А
V _{RRM}	45	V
I _{FSM}	50	Α
V _F	0.53	V
T _J max	150	°C

Mechanical Data

- · Case: DO-214AA(SMB)
- 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: 0.092 grams (approximate)

Ordering Information					
Part No.	Remark	Package	Packing		
EBRT8M45B	General				
EBRT8M45B-H	Halogen Free SMB		3000 / Tape & Reel		
EBRT8M45B-Q	AEC-Q101 qualified]			

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

PARAMETER	SYMBOL	EBRT8M45B	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	8	А
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	50	А
Maximum Instantaneous Forward Voltage IF=8A @ 25°C	V _F	0.53	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=100°C	I _R	0.5 20	mA
Typical Junction Capacitance (NOTE1)	Cj	600	pF
Typical Thermal Resistance (NOTE2)	R _{eJC}	15	°C/W
Operating Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C
Marking Code		T8M45B	

NOTES:

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

2. The heat sink are dimensioned as 40*70mm



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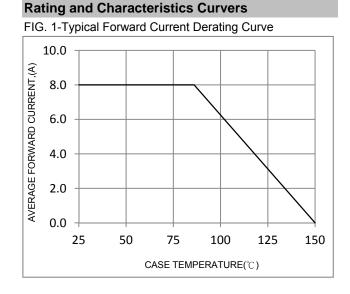


FIG. 3-Maximum Non-Repetitive Forward Surge Current

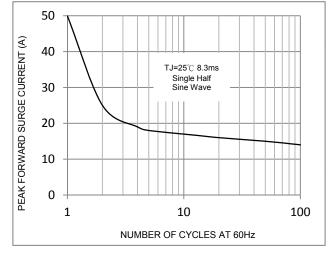
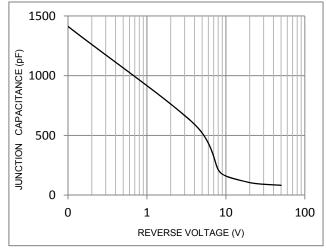


FIG. 5-Typical Junction Capacitance



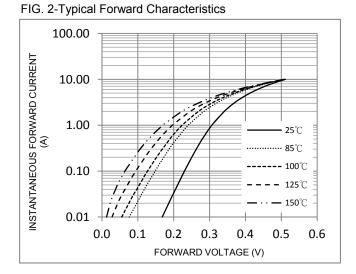
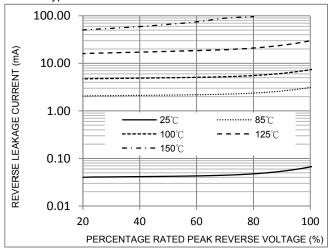


FIG. 4-Typical Reverse Characteristics

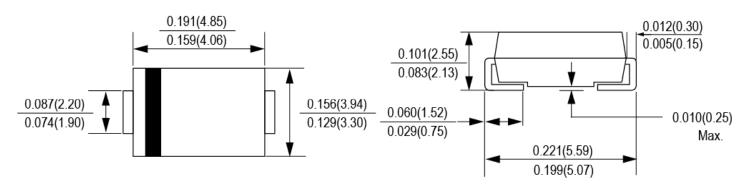






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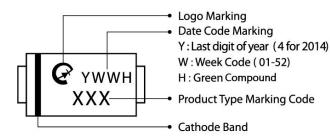
Package Outline Dimensions



DO-214AA(SMB)

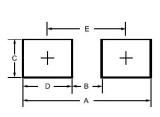
Dimensions in inches and (millimeters)

Marking Information

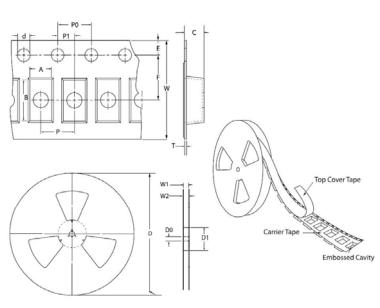


Suggested Pad Layout

Outline Dimension(mm)	SMB (DO-214AA)
A	6.80
В	1.80
С	2.92
D	2.50
E	4.30



Tap & Reel Specification					
ITEM	SYMBOL	SMB(mm)			
	STIVIDUL	DO-214AA			
Carrier width	A	4.0(max)			
Carrier length	В	5.9(max)			
Carrier depth	С	3.0(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	Р	8.0±0.1			
Sprocket hole pitch	Po	4.0±0.1			
Embossment center	P1	2.0±0.05			
Overall tape thickness	Т	0.6 (max)			
Tape width	W	12.0±0.3			
Reel width	W2	18.4 (max)			
Reel width	W1	14.4 (max)			



Revision:B01





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