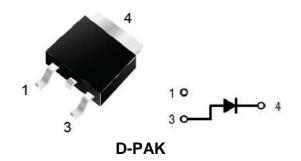




Excellent Schottky Barrier Rectifiers



Primary Characteristics			
I _F	10	Α	
V_{RRM}	100	V	
I _{FSM}	100	Α	
V_{F}	0.7	V	
T _J max	150	°C	

Features

- · Low Forward Voltage Drop
- · Excellent High Temperature Stability
- · Excellent Barrier Rectifier Technology
- Soft, Fast Switching Capability

Mechanical Data

- · Case: DPAK
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe.Solderable per MIL-STD-202, Method 208
- · Weight: 0.34 grams (approximate)

Ordering Information						
Part No.	Remark	Package	Packing			
EBRT10100SD	General	DPAK	PAK 3000 / Reel			
EBRT10100SD-H	Halogen Free	DIAN	3000 / Reel			

Maximum Ratings (TA=25°C unless otherwise noted)					
PARAMETER	SYMBOL	EBRT10100SD	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	10	А		
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	100	А		
Maximum Instantaneous Forward Voltage IF=2A @ 25°C IF=10A @ 25°C	V _F	0.44 Typ. 0.70 Max.	V		
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I _R	3 10	mA		
Typical Junction Capacitance(NOTE1)	C _j	545	pF		
Typical Thermal Resistance	$R_{\theta JC}$	10	°C/W		
Operating Temperature Range	T _J	-55 to +150	°C		
Storage Temperature Range	T _{STG}	-55 to +175	°C		
Marking Code		T10100SD \ 10100SD			

NOTES:

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



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Rating and Characteristics Curvers

FIG. 1-Typical Forward Current Derating Curve

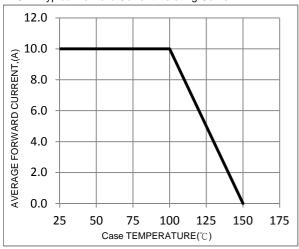


FIG. 3-Maximum Non-Repetitive Forward Surge Current

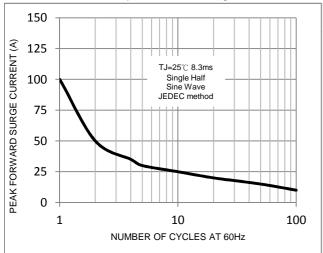


FIG. 5-Typical Junction Capacitance

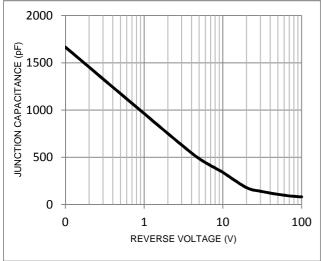


FIG. 2-Typical Forward Characteristics

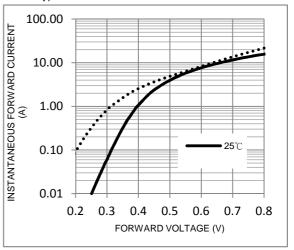
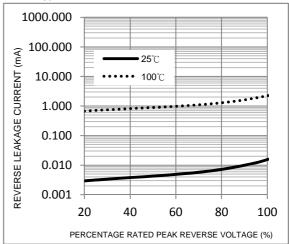


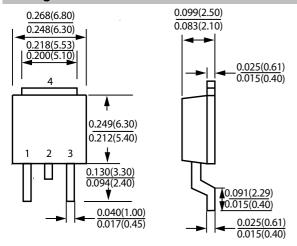
FIG. 4-Typical Reverse Characteristics





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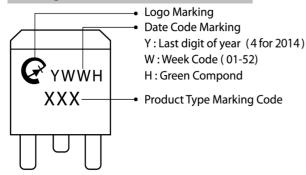
Package Outline Dimensions



D-PAK

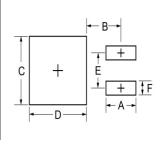
Dimensions in inches and (millimeters)

Marking Information



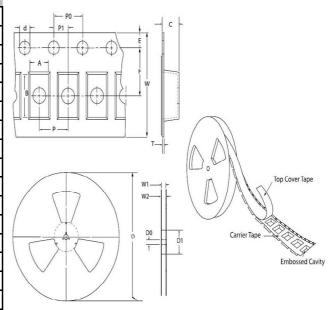
Suggested Pad Layout

ouggested I dd Edyout				
DPAK				
(mm)				
2.00				
3.70				
5.80				
5.85				
4.57				
1.20				



Tape & Reel Specification

Item	Symbol	Dimension
		(mm)
Carrier width	А	6.9±0.10
Carrier length	В	10.5±0.10
Carrier depth	С	2.7±0.10
Sprocket hole	d	1.55±0.10
Reel outside diameter	D	330±2
Reel inner diameter	D1	100±1
Feed hole width	D2	21±1
Sprocket hole position	E	1.75 ±0.10
Punch hole position	F	7.5±0.10
Punch hole pitch	Р	8.00±0.10
Sprocket hole pitch	P0	4.00±0.10
Embossment center	P1	2.00 ±0.10
Tape width	W	16.00+0.3/-0.1
Reel width	W1	16.40±1







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