



EBRP5E60D



Excellent Schottky Barrier Rectifiers



DO-201AD

Features
<ul style="list-style-type: none"> • Guardring for overvoltage protection • Very small conduction losses • Low forward voltage drop • Component in accordance to RoHS 2002/95/EC

Ordering Information		
Part No.	Package	Packing
EBRP5E60D	DO-201AD	1250 / Reel

Device P/N	
Part Number	Remark
EBRP5E60D	General
EBRP5E60D-H	Halogen Free

Primary Characteristics		
I_F	5	A
V_{RRM}	60	V
I_{FSM}	100	A
V_F	0.51	V
$T_J \text{ max}$	150	°C

Mechanical Data
<ul style="list-style-type: none"> • Cases: DO-201AD • 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: 1.071 grams (approximate)

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRP5E60D	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	60	V
Maximum RMS voltage	V_{RMS}	42	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum average forward rectified current	I_F	10.0	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	100.0	A
Maximum Instantaneous Forward Voltage $I_F=5A @ 25^\circ C$	V_F	0.51	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)	C_j	270	pF
Typical Thermal Resistance	$R_{\theta JC}$	20	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C
Marking Code		P5E60D	

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

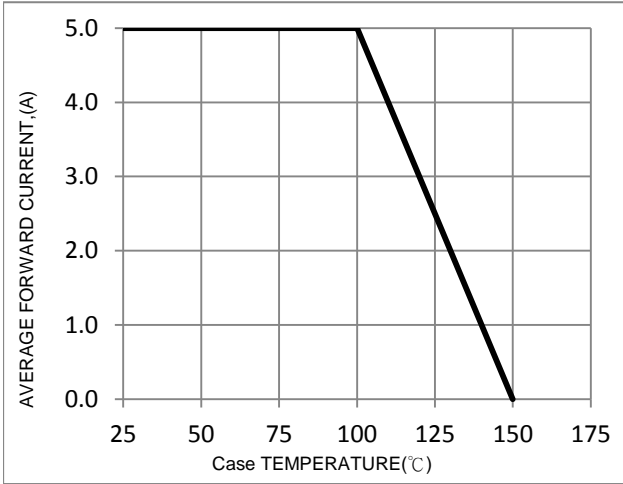


FIG. 2-Typical Forward Characteristics

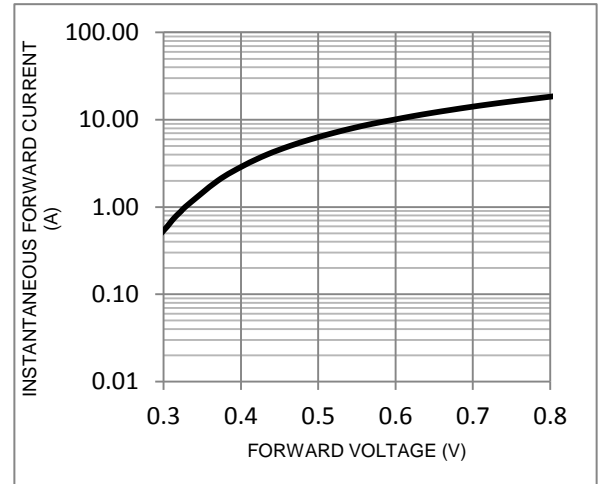


FIG. 3-Maximum Non-Repetitive Forward Surge Current

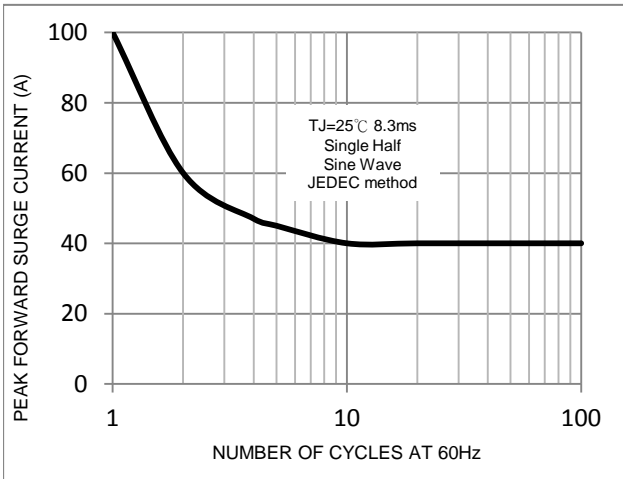


FIG. 4-Typical Reverse Characteristics

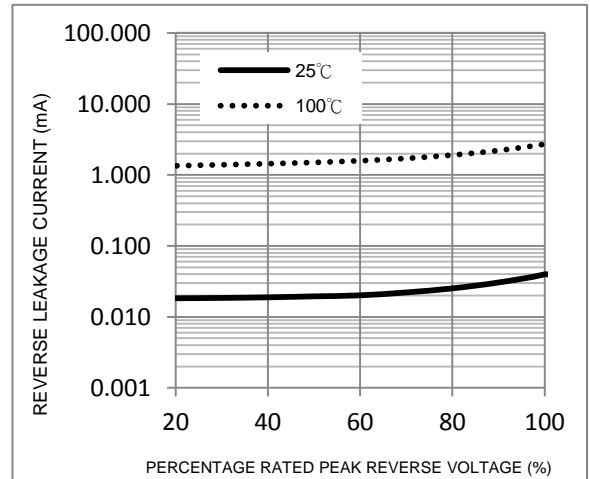
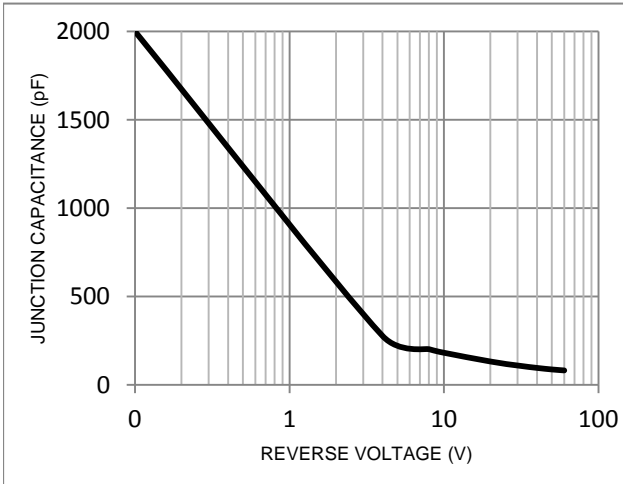
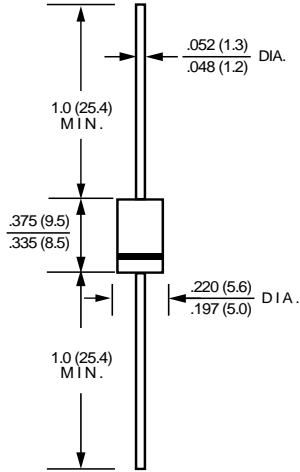


FIG. 5-Typical Junction Capacitance





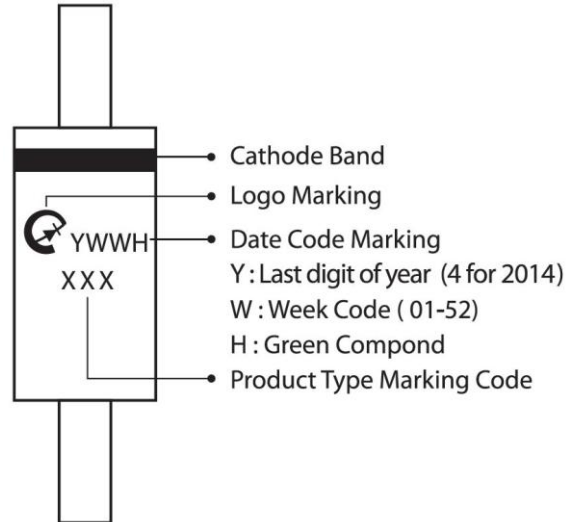
Package Outline Dimensions



DO-201AD

Dimensions in inches and (millimeters)

Marking Information



Axial Lead Reel Taping Specification

Component Outline	Component Pitch A	Inner Tape Pitch B	Cumulative Tolerance
	$\pm 0.5\text{mm}(0.02\text{'})$	$+1.5\text{mm}/-0.4\text{mm}(0.59\text{'})$	
DO-201AD(DO-27)	10.0mm	52.4mm	2.0mm/20 pitch

Item	Symbol	Specification(mm)	Specification(inch)
Component Alignment	Z	1.2max	0.048 max
Tape width	T	6.0 ± 0.4	0.236 ± 0.016
Exposed adhesive	E	0.8 max	0.032 max
Body eccentricity	L1-L2	1.0 max	0.040 max
Reel Outside diameter	D	330.0	13.0
Reel inner diameter	D1	85.7 ± 5.0	3.375 ± 0.197
Reel hole diameter	Do	30.0 ± 5.0	1.181 ± 0.197
Reel width	W	79.0 ± 1.0	3.110 ± 0.040

Notes:

1. Each component lead shall be sandwiched between tapes for a minimum of 3.2mm(0.126")
2. The reel width "W" for 26mm taping is $50.0\pm 1.0\text{mm}(1.97\pm 0.04\text{'})$

