



EBRP5E60D



Excellent Schottky Barrier Rectifiers



DO-201AD

Features
• 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
• 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 IF=5A @ 25°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

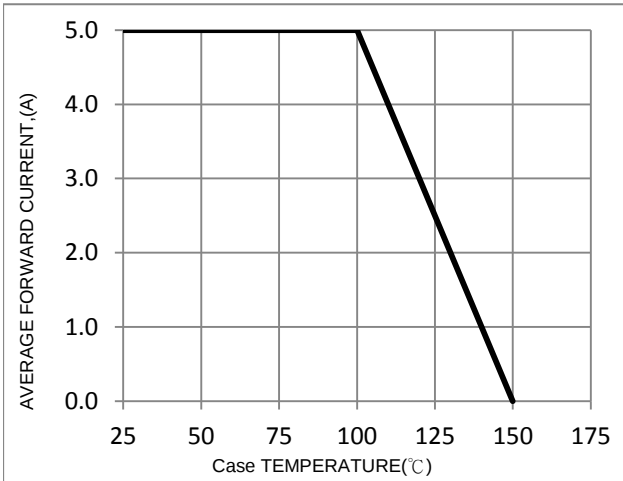


FIG. 2-Typical Forward Characteristics

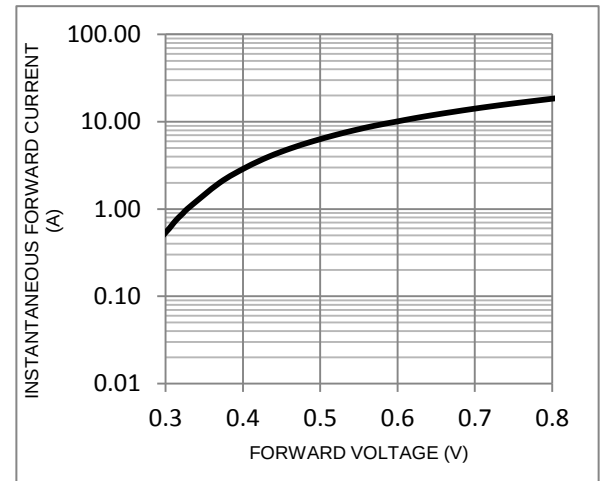


FIG. 3-Maximum Non-Repetitive Forward Surge Current

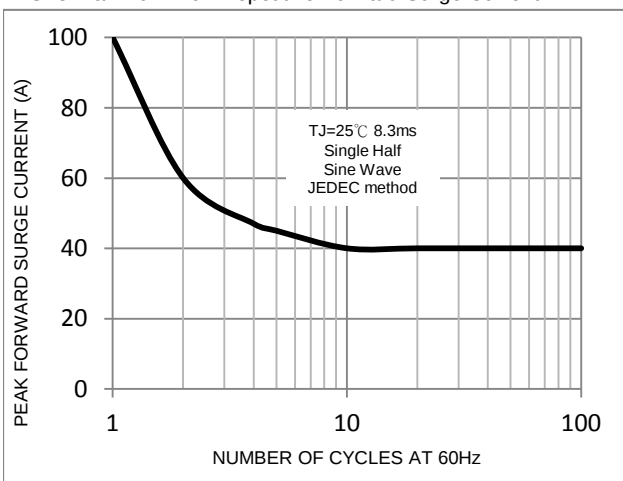


FIG. 4-Typical Reverse Characteristics

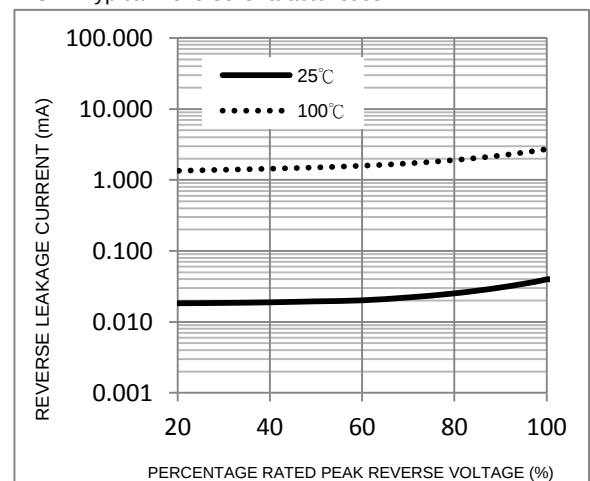
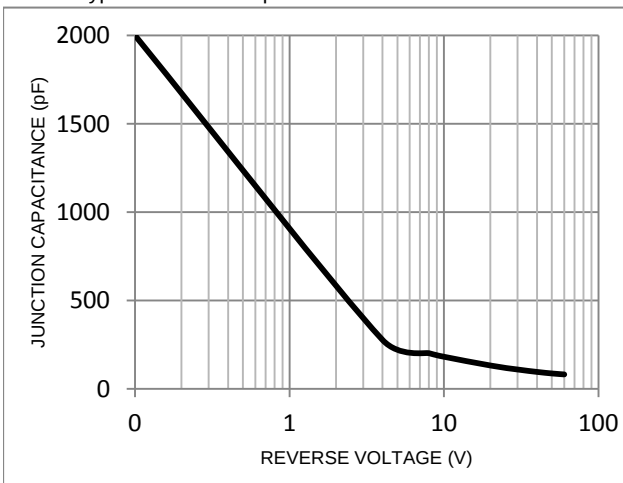


FIG. 5-Typical Junction Capacitance



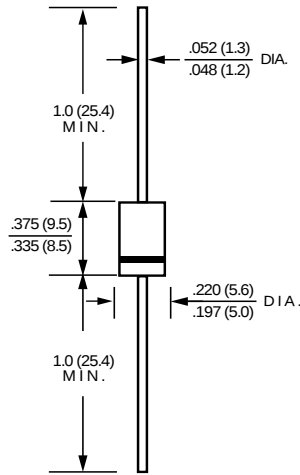


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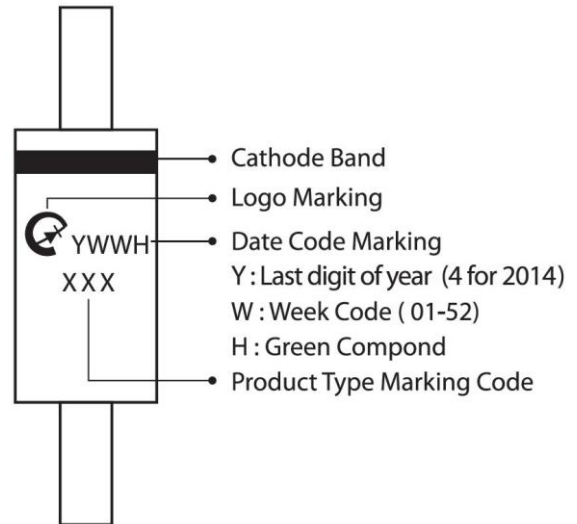
Package Outline Dimensions



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
	±0.5mm(0.02")	+1.5mm/-0.4mm(0.59")	
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±1.0mm(1.97"±0.04")

