



# EBRP10L45D



## Excellent Schottky Barrier Rectifiers



DO-201AD

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

Ordering Information		
Part No.	Package	Packing
EBRP10L45D	DO-201AD	1250 / Reel

Device P/N	
Part Number	Remark
EBRP10L45D	General
EBRP10L45D-H	Halogen Free

Primary Characteristics		
$I_F$	10	A
$V_{RRM}$	45	V
$I_{FSM}$	150	A
$V_F$	0.47	V
$T_J \text{ max}$	150	°C

Mechanical Data
<ul style="list-style-type: none"> <li>• Cases: DO-201AD</li> <li>• Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0</li> <li>• Terminals: Lead free Plating (Tin Finish) Solderable per MIL-STD-202, Method 208</li> <li>• Polarity: Cathode Band</li> <li>• Weight: 1.071 grams (approximate)</li> </ul>

Maximum Ratings (TA=25°C unless otherwise noted)			
PARAMETER	SYMBOL	EBRP10L45D	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	$I_F$	10	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	$I_{FSM}$	150	A
Maximum Instantaneous Forward Voltage $I_F=5A @ 25^\circ C$ $I_F=10A @ 25^\circ C$	$V_F$	0.36 Typ. 0.47 Max.	V
Maximum DC Reverse Current @ $T_A=25^\circ C$ at Rated DC Blocking Voltage @ $T_A=125^\circ C$	$I_R$	0.5 50	mA
Typical Junction Capacitance(NOTE1)	$C_j$	665	pF
Typical Thermal Resistance	$R_{\theta JC}$	30	°C/W
Operating Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C
Marking Code		P10L45D、10L45D	

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

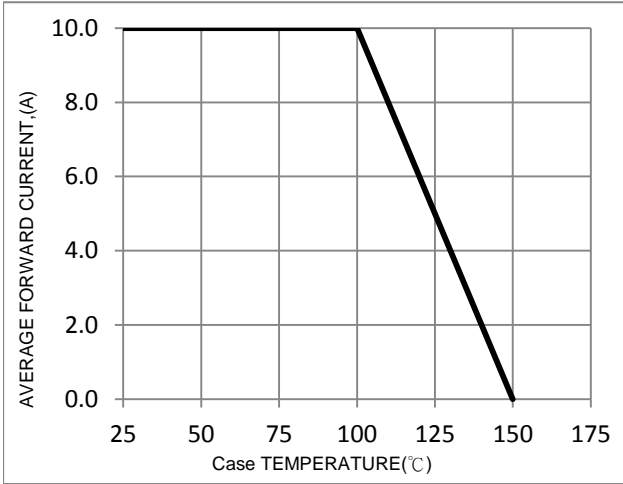


FIG. 2-Typical Forward Characteristics

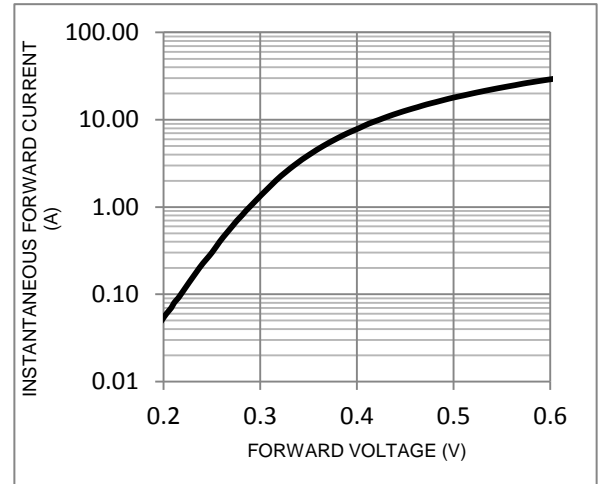


FIG. 3-Maximum Non-Repetitive Forward Surge Current

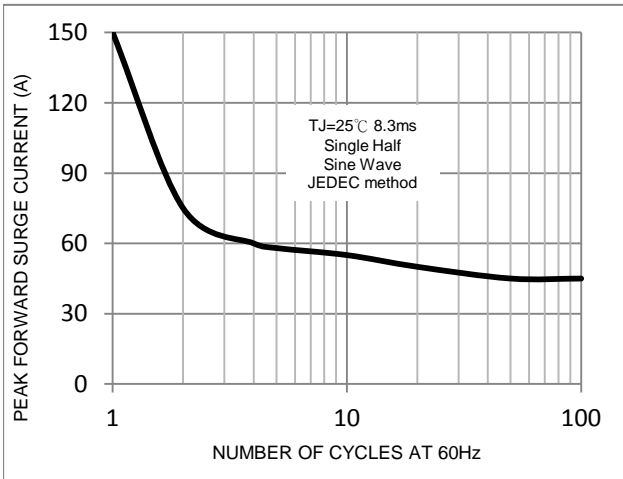


FIG. 4-Typical Reverse Characteristics

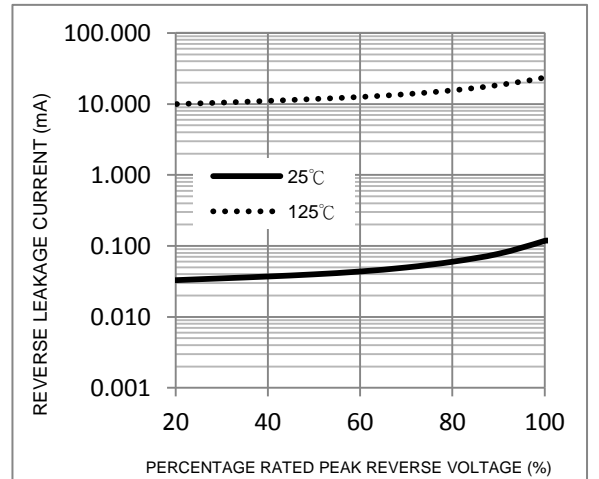
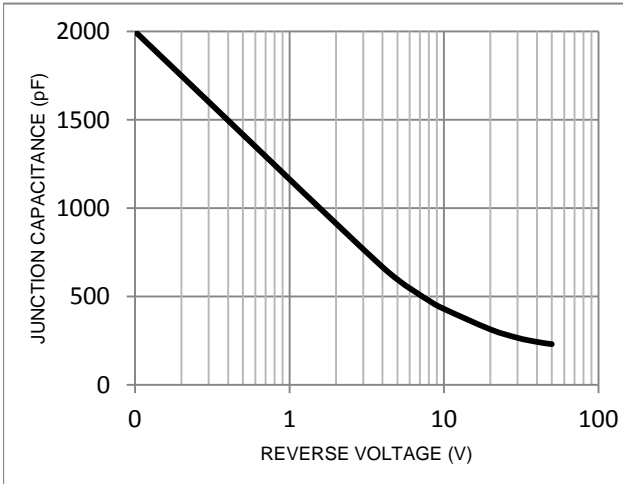
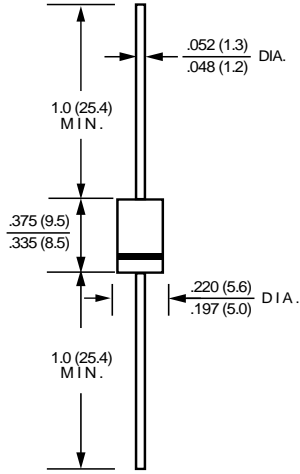


FIG. 5-Typical Junction Capacitance





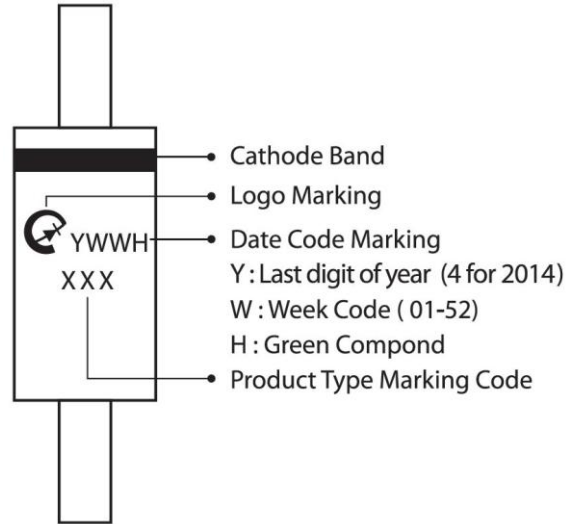
**Package Outline Dimensions**



**DO-201AD**

Dimensions in inches and (millimeters)

**Marking Information**



**Bulk Packing**

Package	Inner Pack	Inner Box (EA)	Inner Box (mm)	Carton (EA)	Carton Size (mm)	Gross Weight (Kg)-Approx.
DO-201AD(DO-27)	Box	500	300x77x39	12000	475x220x260	16