



# P5L60D



## 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
P5L60D	DO-201AD	1250 / Reel

Device P/N	
Part Number	Remark
P5L60D	General
P5L60D-H	Halogen Free

Primary Characteristics		
$I_F$	5	A
$V_{RRM}$	60	V
$I_{FSM}$	100	A
$V_F$	0.60	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	P5L60D	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 $I_F=5A @ 25^\circ C$	$V_F$	0.60	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)	$C_j$	170	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		P5L60D	

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

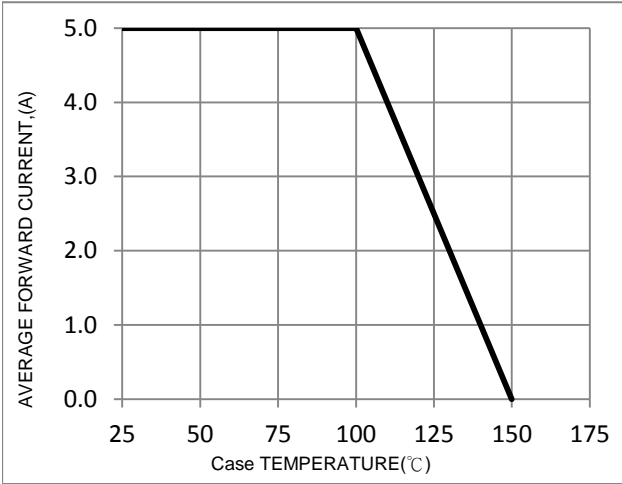


FIG. 2-Typical Forward Characteristics

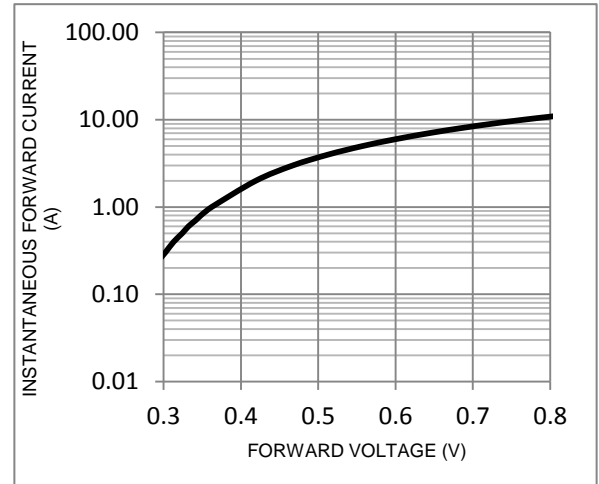


FIG. 3-Maximum Non-Repetitive Forward Surge Current

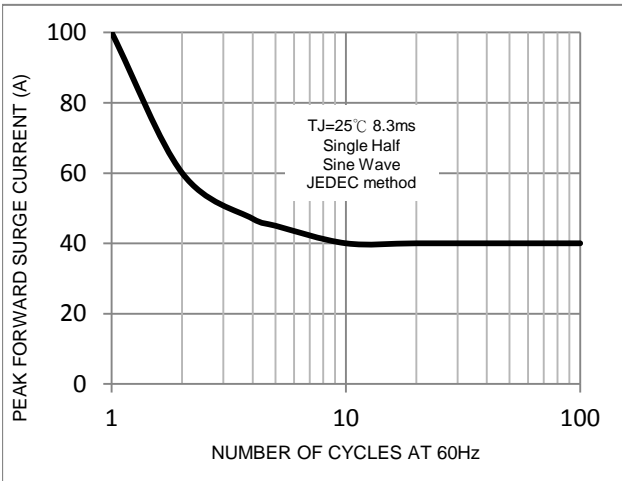


FIG. 4-Typical Reverse Characteristics

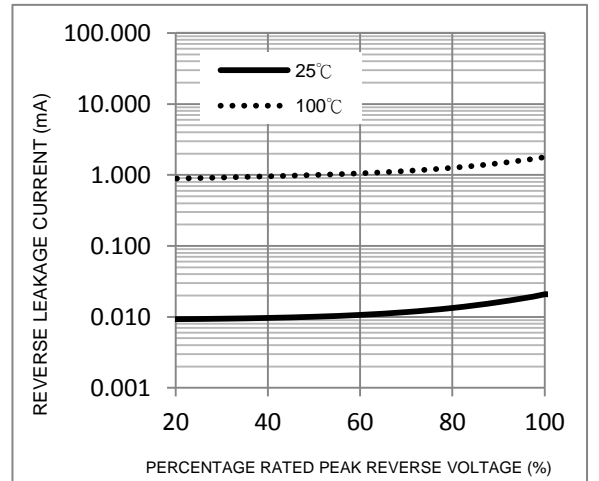
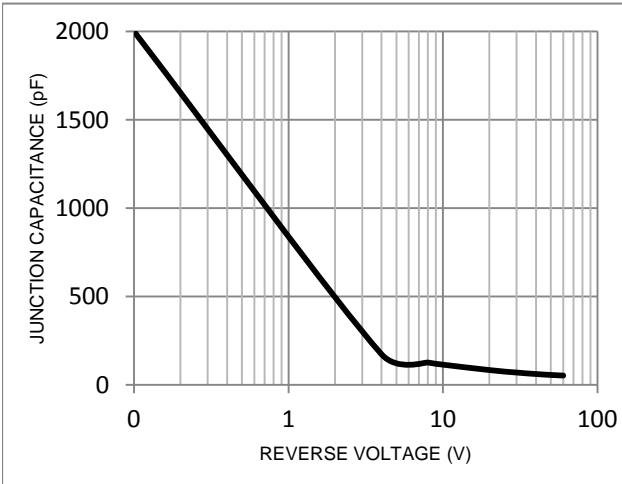
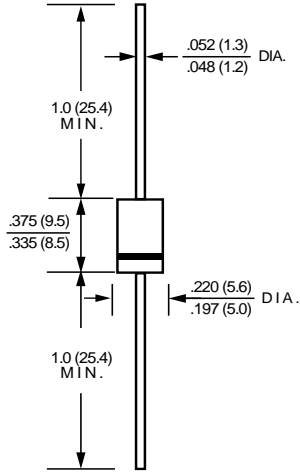


FIG. 5-Typical Junction Capacitance



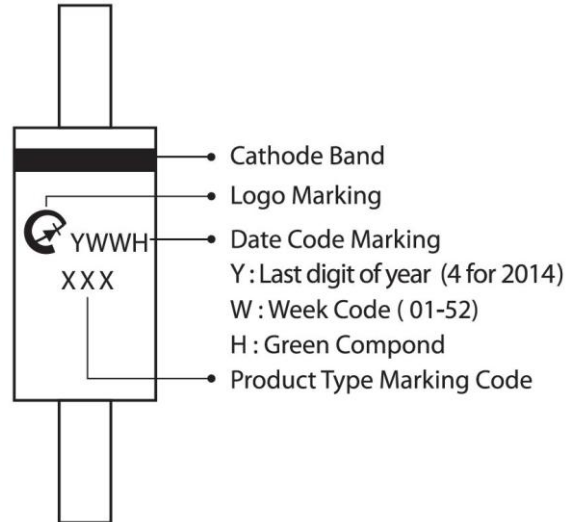
### Package Outline Dimensions



**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	$6.0\pm 0.4$	$0.236\pm 0.016$
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	$85.7\pm 5.0$	$3.375\pm 0.197$
Reel hole diameter	Do	$30.0\pm 5.0$	$1.181\pm 0.197$
Reel width	W	$79.0\pm 1.0$	$3.110\pm 0.040$

#### 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  $50.0\pm 1.0\text{mm}(1.97\pm 0.04\text{'})$

