



# P10L300D



## Excellent Schottky Barrier Rectifiers



DO-201AD

Primary Characteristics		
$I_F$	10	A
$V_{RRM}$	300	V
$I_{FSM}$	200	A
$V_F$	0.9	V
$T_J \text{ max}$	150	°C

Features
<ul style="list-style-type: none"> <li>• High current capability</li> <li>• High surge current capability</li> <li>• Low reverse current</li> <li>• Component in accordance to RoHS 2002/95/EC</li> </ul>

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)

Ordering Information			
Part No.	Remark	Package	Packing
P10L300D	General	DO-201AD	1200 / Ammo Box
P10L300D-H	Halogen Free		

Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)			
PARAMETER	SYMBOL	P10L300D	UNIT
Maximum repetitive peak reverse voltage	$V_{RRM}$	300	V
Maximum RMS voltage	$V_{RMS}$	210	V
Maximum DC blocking voltage	$V_{DC}$	300	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	$I_{FSM}$	200.0	A
Maximum Instantaneous Forward Voltage $I_F=3A @ 25^\circ\text{C}$ $I_F=10A @ 25^\circ\text{C}$	$V_F$	0.74 Typ. 0.90 Max.	V
Maximum DC Reverse Current @ $T_A=25^\circ\text{C}$ at Rated DC Blocking Voltage @ $T_A=125^\circ\text{C}$	$I_R$	0.2 5	mA
Typical Junction Capacitance(NOTE1)	$C_j$	130	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		P10L300D · 10L300D	

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

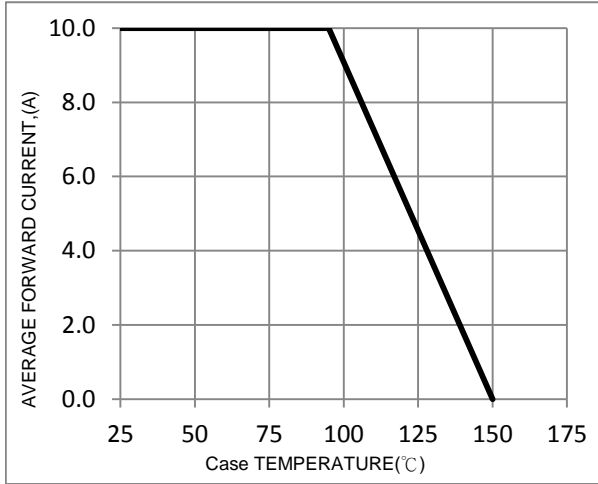


FIG. 2-Typical Forward Characteristics

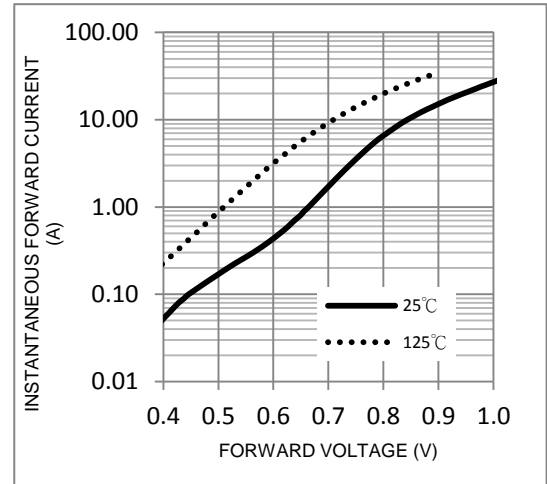


FIG. 3-Maximum Non-Repetitive Forward Surge Current

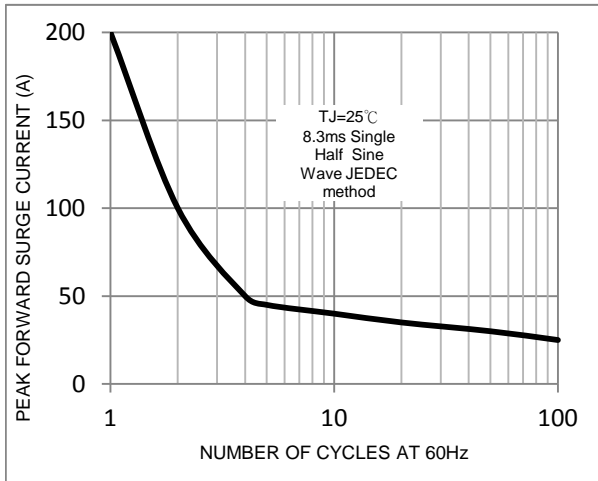


FIG. 4-Typical Reverse Characteristics

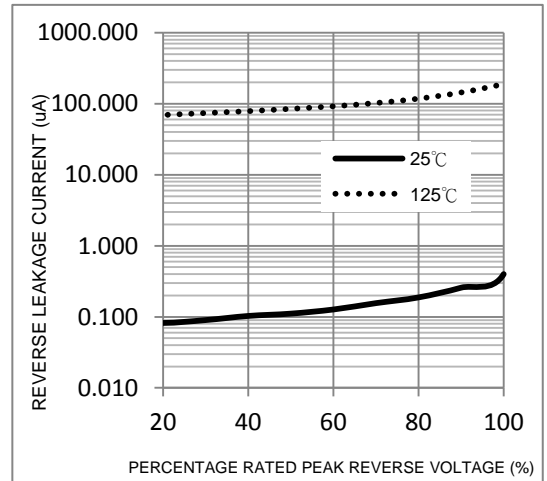
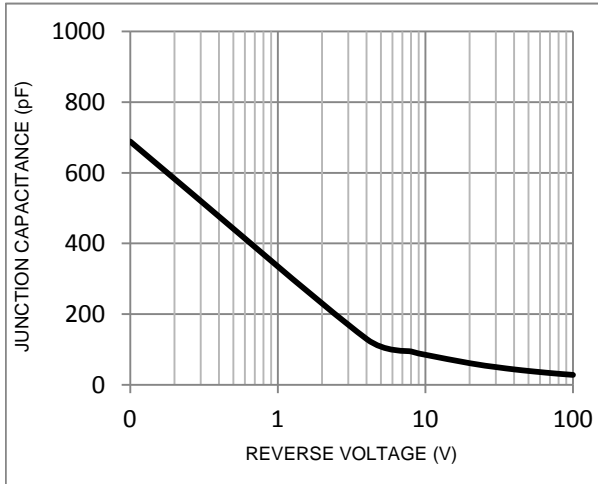
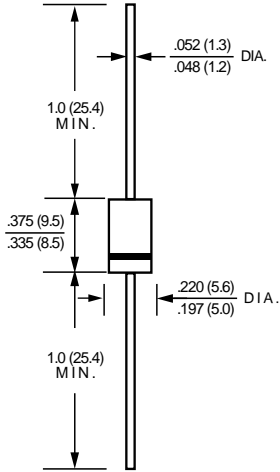


FIG. 5-Typical Junction Capacitance



### Package Outline Dimensions



### DO-201AD

Dimensions in inches and (millimeters)

### Marking Information



### Ammo Box Packing

Package	Inner	BOX	Inner Box	Carton	Carton Size	Gross Weight
	Pack	(EA)	(mm)	(EA)	(mm)	(Kg)-Approx.
DO-201AD(DO-27)-52mm	Reel	1,200	255x75x150	12000	440x280x335	16