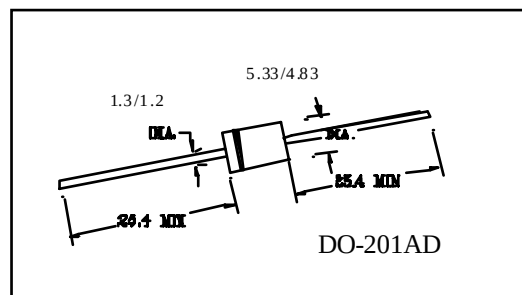


3.0 AMP. Schottky Barrier Rectifier

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**MECHANICAL DATA**

- Case:DO-201 Molded plastic
- Epoxy:UL94V-0 rate flame retardant
- Lead:Axial leads, solderable per MIL-STD-202, method 208 guaranteed
- Polarity:Color band denotes cathode end
- High temperature soldering guaranteed:
- 250°C/10 seconds/0.375", (9.5mm) lead lengths at 5 lbs., (2.3Kg) tension
- Weight:1.1grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA = 25 °C)

Characteristics	Symbol	PJ5820	PJ5821	PJ5822	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	20	30	40	V
Working Peak reverse Voltage	V_{RWM}	20	30	40	V
DC Blocking Voltage	V_{DC}	20	30	40	V
RMS Reverse Voltage	$V_r(\text{rms})$	14	21	28	V
Maximum Average Forward Rectified Current ($T_a=55^{\circ}\text{C}$)	$I_{f\text{av}}$	3.0	3.0	3.0	A
Non Repetitive Peak Surge Current(1/2 Wave. 60Hz. $T_L=70^{\circ}\text{C}$)	I_{fsm}	80	80	80	A
Maximum Instantaneous Reverse Current($T_l=25^{\circ}\text{C}$)	I_r	2.0	2.0	2.0	mA
Maximum Instantaneous Reverse Current($T_l=100^{\circ}\text{C}$)	I_r	25.0	25.0	25.0	mA
Operating & Storage Temperature Range	T_j, T_{strg}	-65 to 125 $^{\circ}\text{C}$			$^{\circ}\text{C}$
Forward Voltage($I_f=1.0\text{A}$)	V_f	0.390	0.430	0.450	V
Typical Junction Capacitance (note 2)	C_j	250	220	220	pF

Notes:

1. Pulse Test-Pulse width=300 μ S, Duty Cycle 2%.
2. Measured at 1MHz and applied Voltage of 4.0 Volts.
3. Thermal Resistance Junction to Lead Vertical PCB Mounting 0.375"(9.5mm)lead lengths.

3.0 AMP. Schottky Barrier Rectifier

FIGURE 1.-FORWARD CURRENT DERATING CURVE

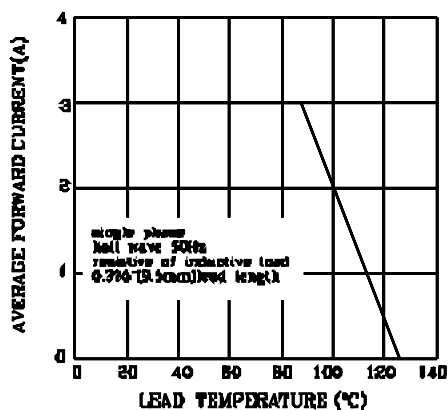


FIGURE 2.-TYPICAL JUNCTION CAPACITANCE

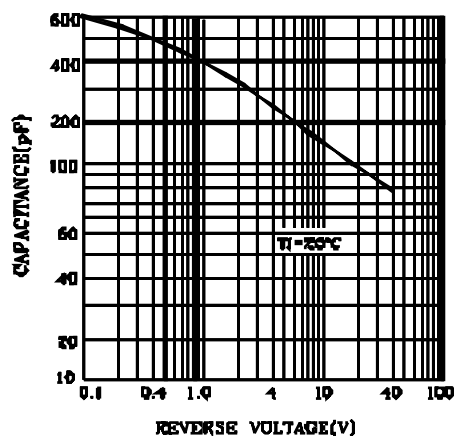


FIGURE 3.-TYPICAL FORWARD CHARACTERISTICS

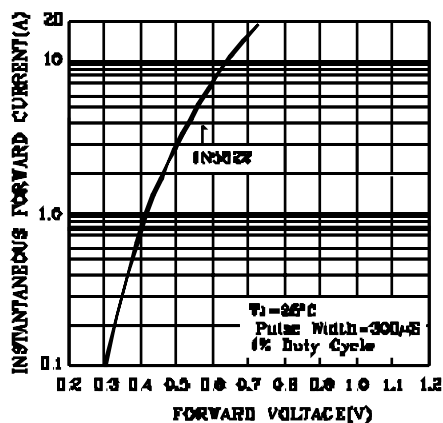


FIGURE 4.-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

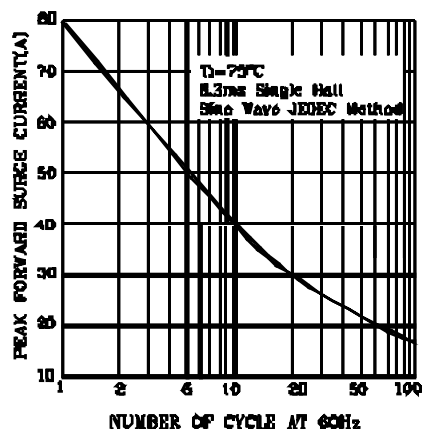


FIGURE 5.-TYPICAL REVERSE CHARACTERISTICS

