

3A Silicon Rectifiers

FEATURES :

- Low forward voltage drop.
- High forward surge capability.
- High reliability.
- High temperature soldering guaranteed 260 10 Seconds
- RoHS compliant.



DO-201AD

MECHANICAL DATA :

- Case : Molded plastic, DO-201AD
- Terminals : Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity : Band denotes cathode



MAXIMUM RATINGS (Ratings at 25 °C ambient temperature unless otherwise specified)

Characteristic	Symbol	1N5400	1N5401	1N5402	1N5404	1N5406	1N5407	1N5408	Unit
Peak Repetitive Reverse Voltage DC Blocking Voltage	V_{RRM} V_{DC}	50	100	200	400	600	800	1000	V
RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectifier Forward Current	$I_{(AV)}$	3.0							A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	140							A
Maximum instantaneous forward voltage at 3.0A	V_F	1.2							V
Maximum DC reverse current at rated DC blocking voltage	I_R	5.0 100							uA
Typical Junction Capacitance ⁽¹⁾	C_J	50							pF
Typical Thermal resistance	$R_{\theta JA}$	18							°C/W
Operating Junction temperature	T_J	-55 to +150							°C
Storage temperature range	T_{STG}	-55 to +150							°C

Note : 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C

RATINGS AND CHARACTERISTICS CURVES

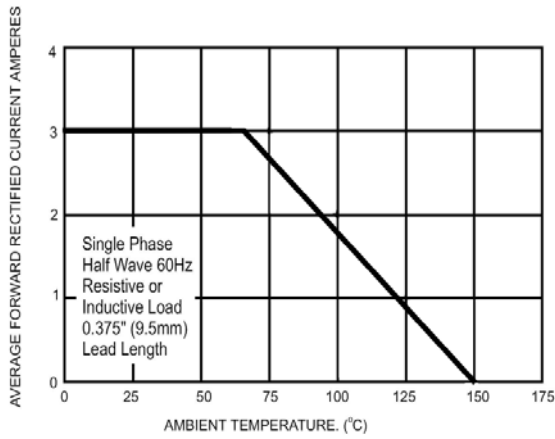


Figure 1. FORWARD CURRENT DERATING CURVE

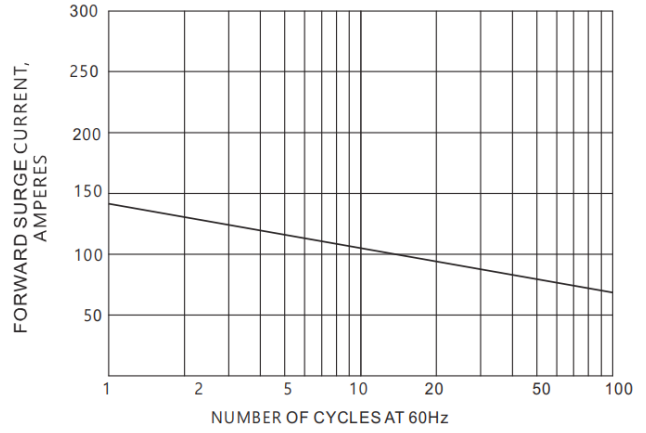


Figure 2. MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

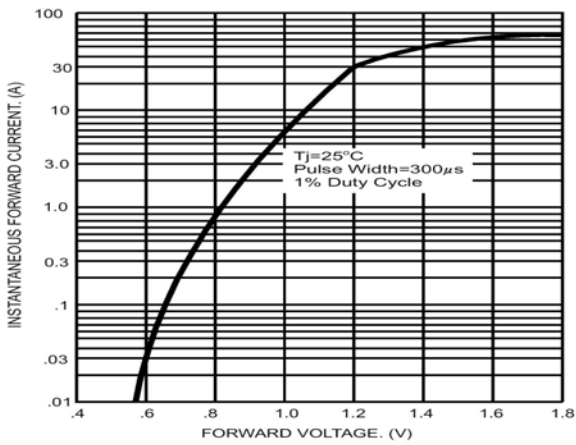


Figure 3. TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

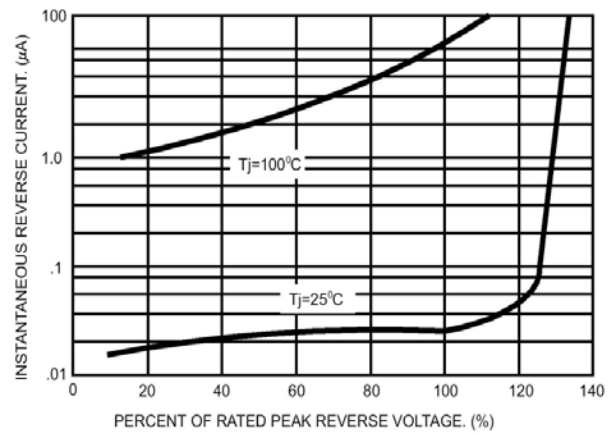


Figure 4. TYPICAL REVERSE CHARACTERISTICS

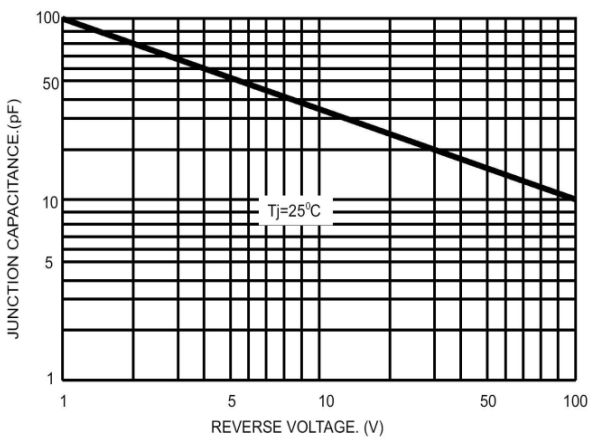
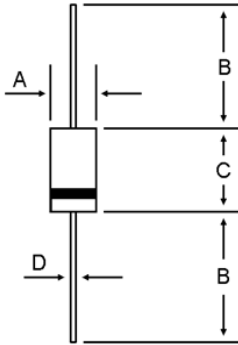


Figure 5. TYPICAL JUNCTION CAPACITANCE

- DO-201AD Package outlines : Dimensions in millimeters



Dimensions	Millimeters	
	Min	Max
A	4.80	5.60
B	24.00	---
C	7.20	9.50
D	0.90	1.30

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