

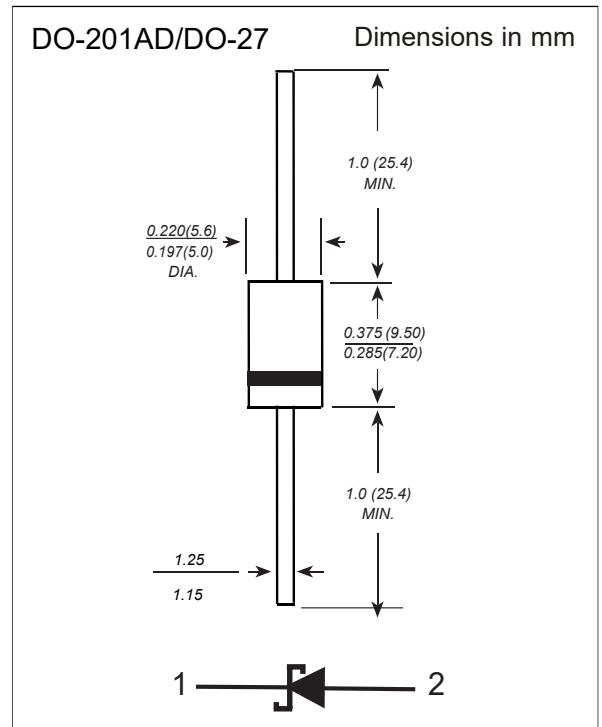


### ■ Features

- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375"(9.5mm) lead length, 5
- Comply with RoHS standard

### ■ Mechanical Data

- package: DO-201AD/DO-27
- Solder plated, solderable per MIL-STD-750, Method 2026
- Mounting Position : Any



### ■ Maximum Ratings And Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Parameter	SYMBOLS	1N5820	1N5821	1N5822	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	V
Maximum average forward rectified current 0.375"(9.5mm) lead length(see fig.1)	I <sub>(AV)</sub>	3.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	80.0			A
Maximum instantaneous forward voltage at 10.0A	V <sub>F</sub>	0.50	0.55		V
Maximum DC reverse current at rated DC blocking voltage	I <sub>R</sub>	0.3 15.0			mA
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	150			pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>	40.0			°C/W
Operating junction and storage	T <sub>J</sub>	-65 to +125			°C
Storage temperature range	T <sub>STG</sub>	-65 to +125			°C



■ Characteristics Curves( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

Fig. 1- Forward Current Derating Curve

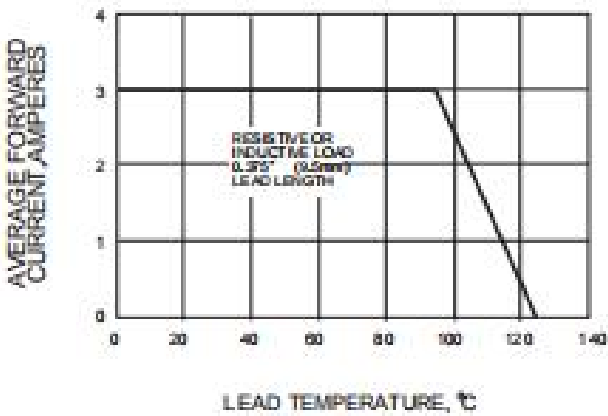


Fig. 2-Maximum Non-Repetitive Peak Forward Surge Current

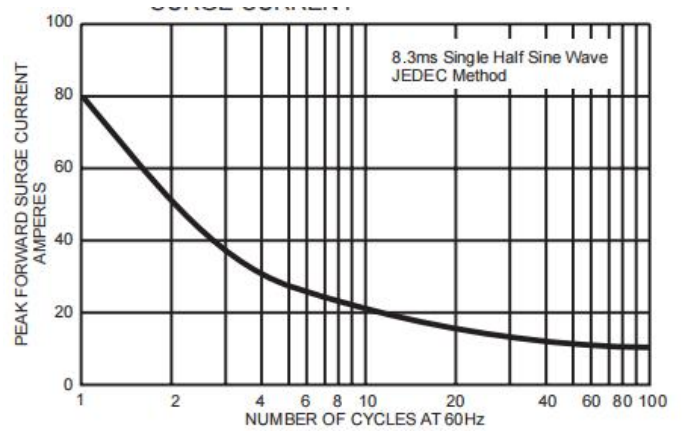


Fig. 3-Typical Reverse Characteristics

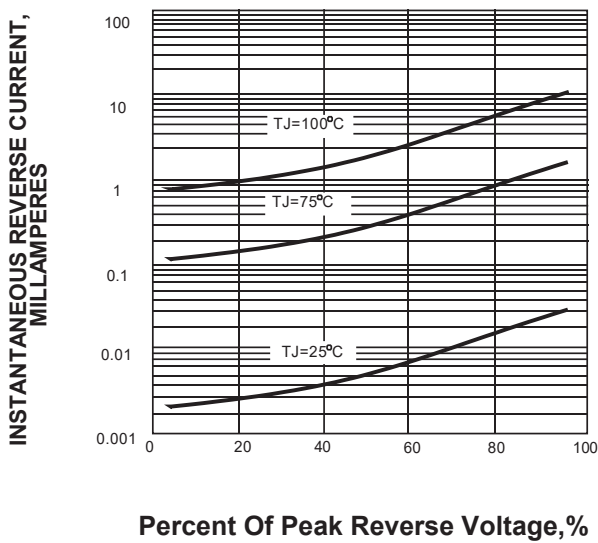
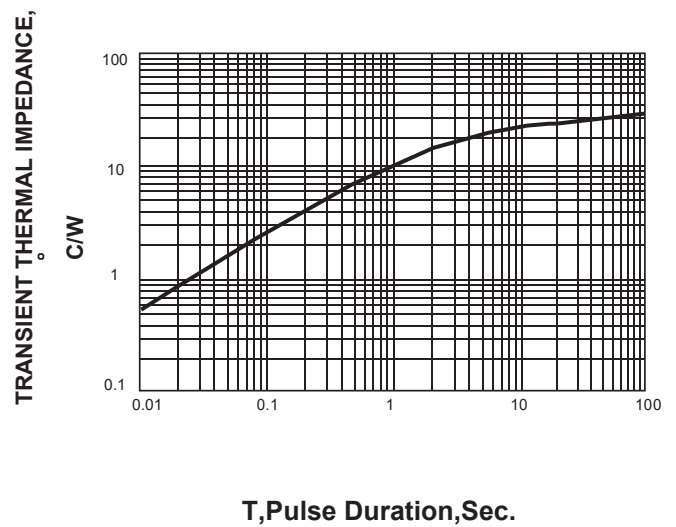


Fig. 4-Typical Transient Thermal Impedance



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