Voltage Range 200 V
Current 4.0 Ampere

Features

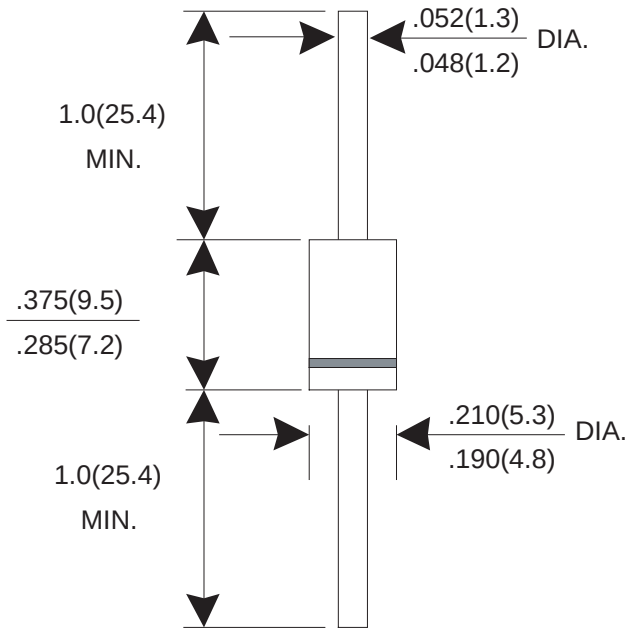
- Fast switching for high efficiency
- Low forward voltage drop
- High current capability
- Low reverse leakge current
- High surge current capability

Mechanical Data

- Case: Molded plastic DO-201AD
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Solderable per MIL-STD-202 method 208
- Polarity:Color band denotes cathode
- Mounting position: Any
- Weight: 1.1 grams

Dimensions in inches and (millimeters)

DO-201AD



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

CHARACTERISTIC	SYMBOL	TMUR420	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	200	V
Maximum Peak Reverse Voltage	V_{RWM}	140	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current T_A=75°C	$I_{(AV)}$	4.0	A
Peak Forward Surge Current, 8.3ms single Half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	125	A
Maximum Instantaneous Forward Voltage @ 4.0 A @ 3.0 A	V_F	0.89 0.88	V
Maximum DC Reverse Current @T_J=25°C At Rated DC Blocking Voltage @T_J=150°C	I_R	5.0 250	uA uA
Max. Reverse Recovery Time At I_F=0.5A, I_R=1.0A, Irr=0.25A	Trr	25	nS
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +175	°C

NOTES: (1)Pulse test : tp=300us, duty cycle < 2%.
(2)Lead length = 1/2" on P.C. board with 1.5" x 1.5" copper surface.

RATING AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

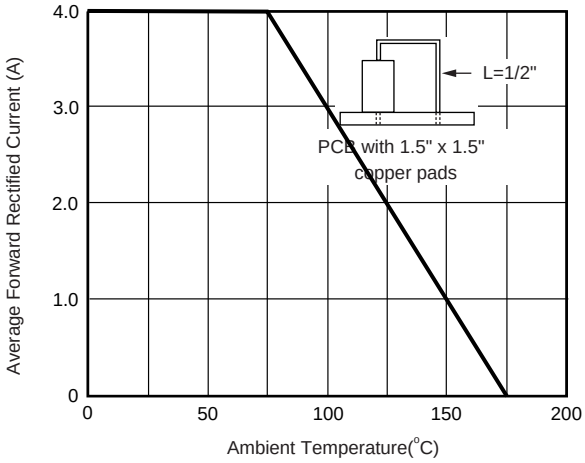


FIG.2 MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

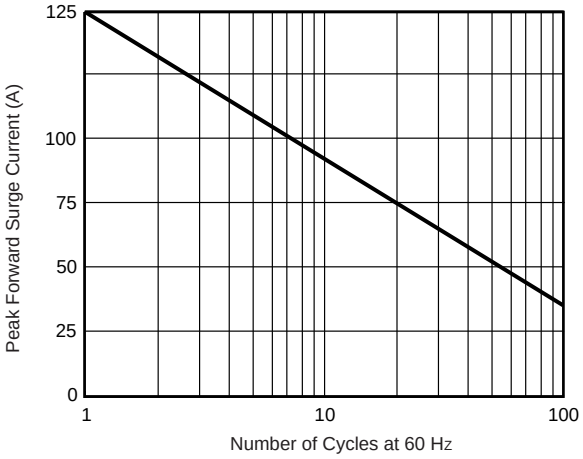


FIG. 3 TYPICSL INSTANTANEOUS FORWARD CHARACTERISTICS

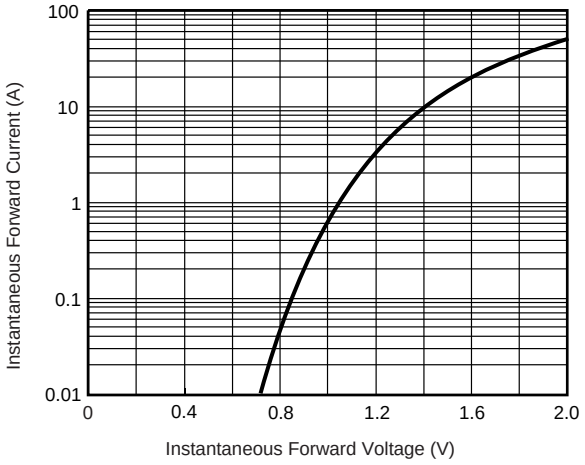


FIG 4. TYPICAL REVERSE CHARACTERISTICS

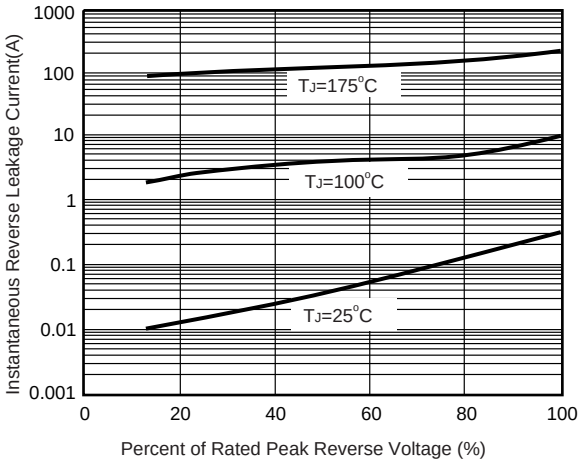


FIG.5 TYPICAL JUNCTION CAPACITANCE PER LEG