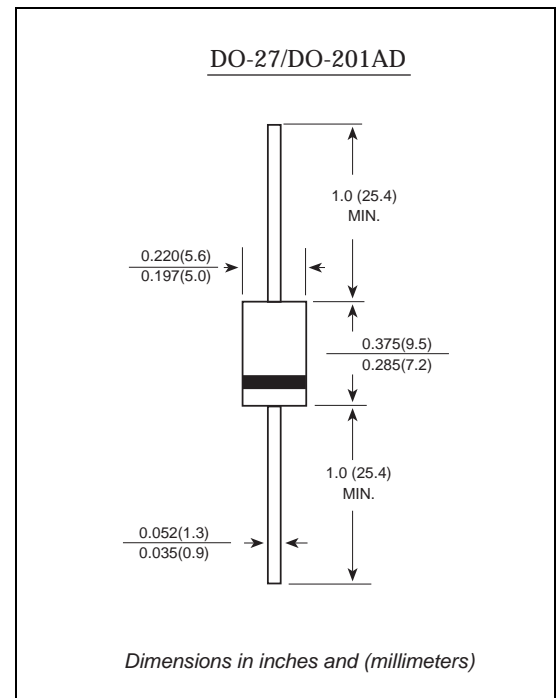


Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ Open-Junction chip ,silastic passivated
- ◆ Low reverse leakage
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed 250°C/10 seconds at terminals

Mechanical Data

Case: JEDEC DO-27 molded plastic body
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: Color band denotes cathode end
 Mounting Position: Any
 Weight : 0.04 ounce, 1.10 grams



Maximum Ratings And Electrical Characteristics

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

	SYMBOLS	5A05	5A1	5A2	5A3	5A4	5405	5A6	5A8	5A10	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum RMS voltage	V _{RMS}	35	70	140	210	280	350	420	560	700	VOLTS
Maximum DC blocking voltage	V _{DC}	50	100	200	300	400	500	600	800	1000	VOLTS
Maximum average forward rectified current at T _L =75°C	I <sub(av)< sub=""></sub(av)<>	5.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	300									Amps
Maximum instantaneous forward voltage at 5.0A	V _F	1.1									Volts
Maximum DC reverse current T _A =25°C at rated DC blocking voltage T _A =100°C	I _R	5.0 100.0									uA
Typical junction capacitance (Note 2)	C _J	30									pF
Typical thermal resistance (Note 3)	R _{qJA}	20									°C/W
Operating junction and storage temperature range	T _J ,T _{STG}	-50 to +155									°C

Note:1.Reverse recovery time test condition: IF=0.5A IR=1.0A Irr=0.25A
 2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
 3.Thermal resistance from junction to ambient at 0.375 "(9.5mm)lead length,P.C.B. mounted



5A05 THRU 5A10

Ratings And Characteristic Curves

FIG. 1- FORWARD CURRENT DERATING CURVE

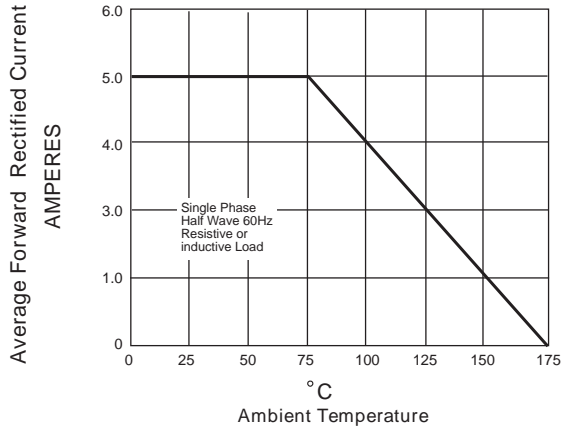


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

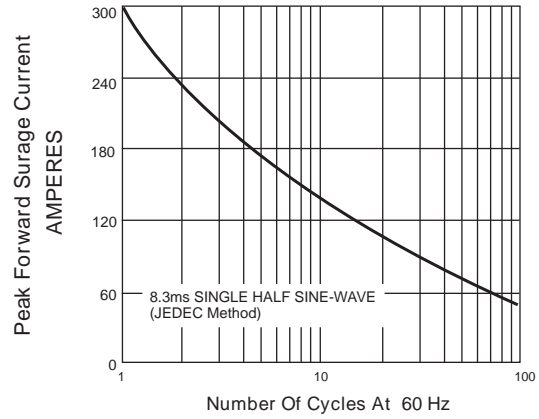


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

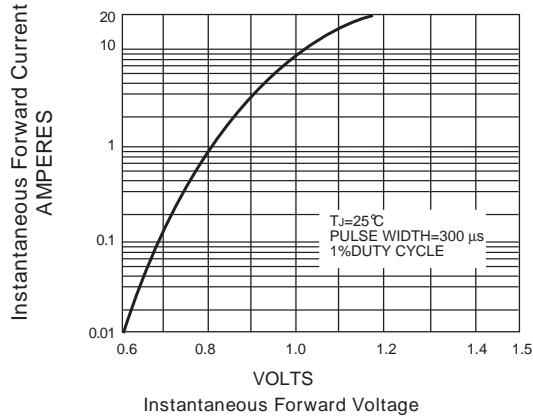


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

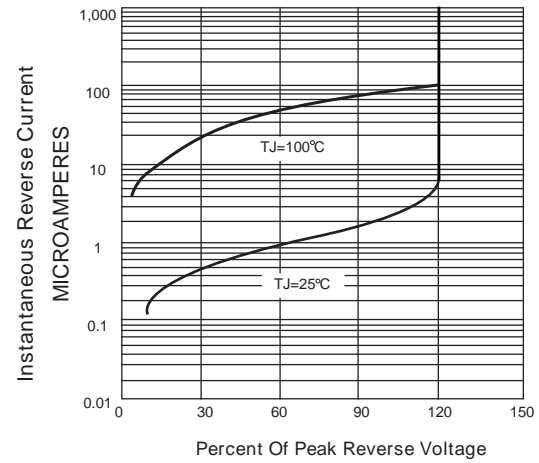


FIG. 5-TYPICAL JUNCTION CAPACITANCE

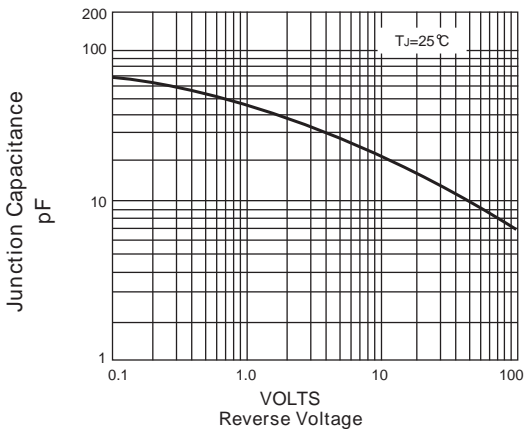


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

