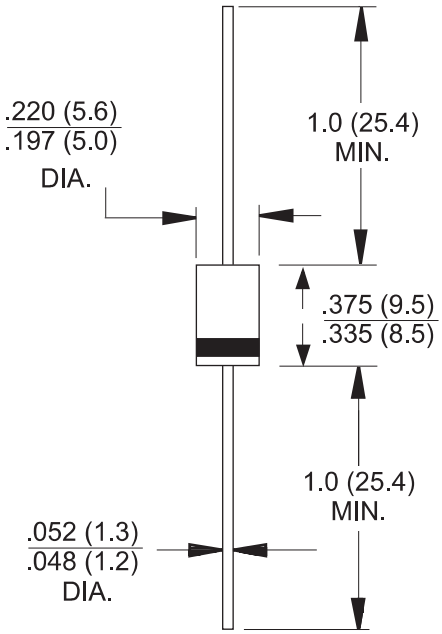
CURRENT 5.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

5A1 THRU 5A10

DO-27 / DO-201AD

Features

Low cost
Diffused junction
Low leakage
Low forward voltage drop
High current capability
Easily cleaned with Freon,Isopropanol and similar solvents



Dimensions in inches and (millimeters)

Mechanical Data

Case: JEDEC DO-27,molded plastic
Polarity: Color band denotes cathode
Weight: 0.041 ounces,1.15 grams
Mounting position: Any

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase,half wave,50 Hz,resistive or inductive load. For capacitive load,derate by 20%.

		5A1	5A2	5A4	5A6	5A8	5A10	UNITS
Maximum recurrent peak reverse voltage	V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS voltage	V_{RMS}	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	100	200	400	600	800	1000	V
Maximum average forward rectified current 9.5mm lead length, @T_A=75℃	$I_{F(AV)}$	5.0						A
Peak forward surge current 10ms single half-sine-wave superimposed on rated load @T_J=125℃	I_{FSM}	300						A
Maximum instantaneous forward voltage @5.0A	V_F	1.2						V
Maximum reverse current @T_A=25℃ at rated DC blocking voltage @T_A=100℃	I_R	10.0 100.0						μA
Typical junction capacitance (Note1)	C_J	80						pF
Typical thermal resistance (Note2)	$R_{\theta JA}$	15						℃/W
Operating junction temperature range	T_J	- 55 ---- +150						℃
Storage temperature range	T_{STG}	- 55 ---- +150						℃

NOTE: 1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient.

CURRENT 5.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

5A1 THRU 5A10

RATING AND CHRACTERISTIC CURVES 5A1 Thru 5A10

FIG.1 – FORWARD DERATING CURVE

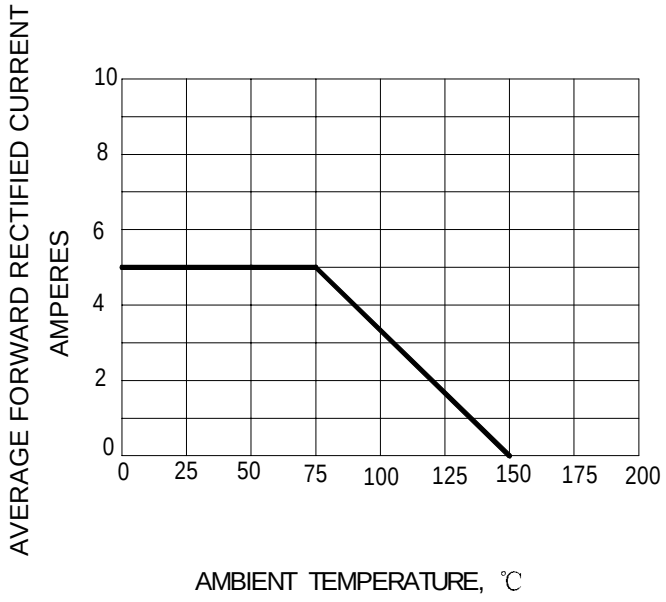


FIG.2 – TYPICAL FORWARD CHARACTERISTICS

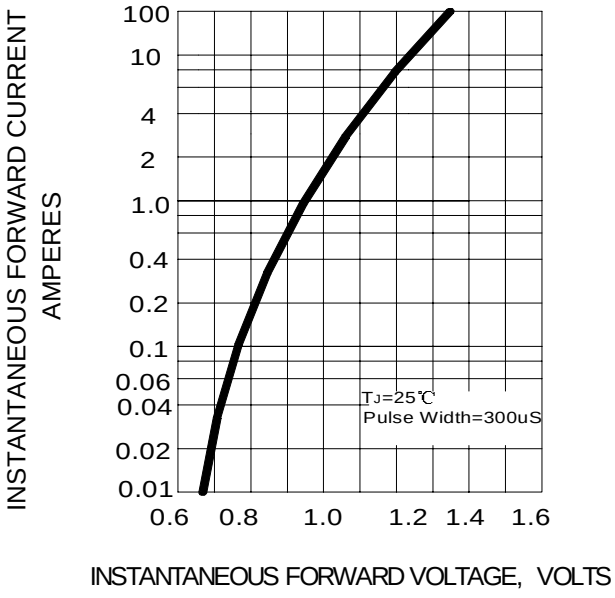


FIG.3 –MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

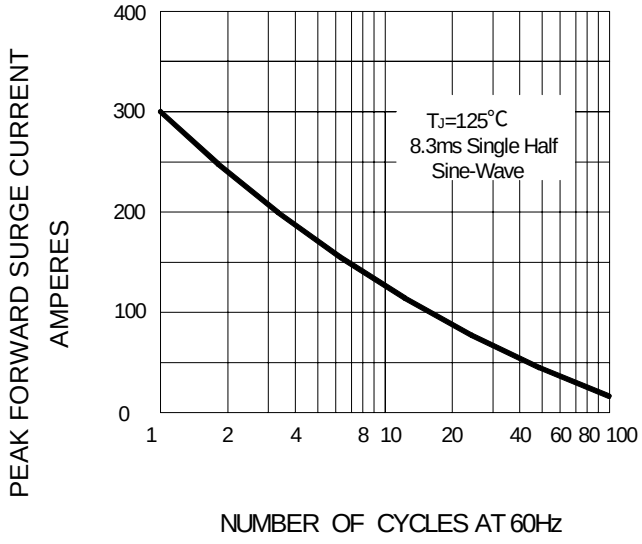


FIG.4 – TYPICAL JUNCTION CAPACITANCE

