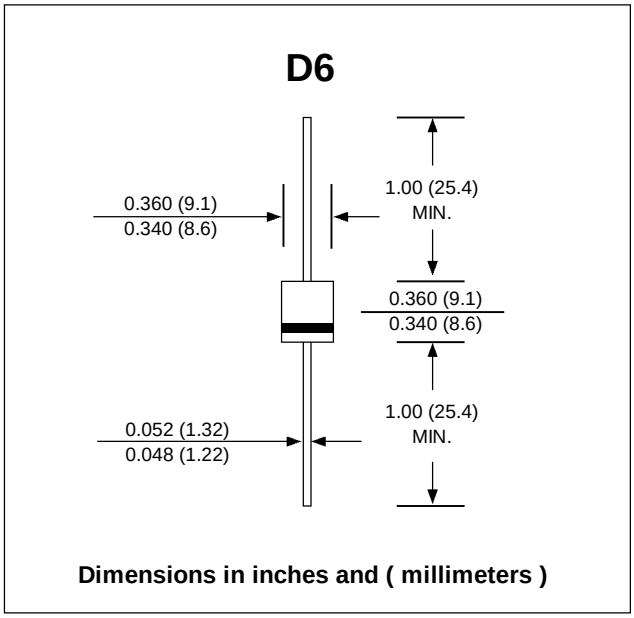
Certificate Number: Q10561

Certificate Number: E17276

10A01-10A07

SILICON RECTIFIER DIODES

PRV : 50 - 1000 Volts
Io : 10 Amperes



Dimensions in inches and (millimeters)

FEATURES :

* Diffused Junction
* High current capability and Low Forward Voltage Drop
* Surge Overload Rating to 600A Peak
* Low Reverse Leakage Current
* Pb / RoHS Free

MECHANICAL DATA :

* Case : molded plastic
* Epoxy : UL94V-O rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 2.049 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	10A01	10A02	10A03	10A04	10A05	10A06	10A07	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Average Rectified Output Current (Note 1) Ta = 50°C	I_O	10							A
Non-Repetitive Peak Forward Surge Current 8.3 ms Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	600							A
Maximum Forward Voltage at I_F = 10 Amps.	V_F	1.3							V
Maximum DC Reverse Current Ta = 25 °C	I_R	10							µA
at rated DC Blocking Voltage Ta = 100 °C	$I_{R(H)}$	100							µA
Typical Junction Capacitance (Note 2)	Cj	150				80			pF
Thermal Resistance	$R_{\theta JC}$	0.8							°C/W
Operating and Storage Temperature Range	T_J, T_{STG}	- 65 to + 150							°C

Notes :

(1) Leads maintained at ambient temperature at a distance of 9.5 mm fro, the case.

(2) Measured at 1.0 MHz and applied reverse volage of 4.0V DC.

RATING AND CHARACTERISTIC CURVES (10A01 - 10A07)

FIG.1 - FORWARD CURRENT DERATING CURVE

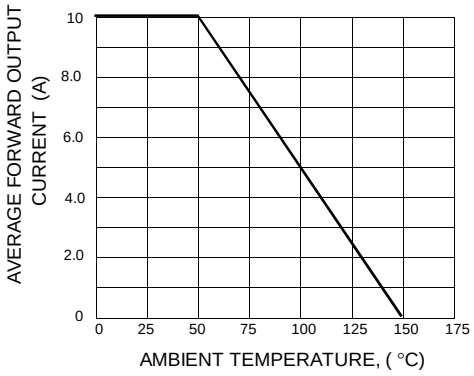


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

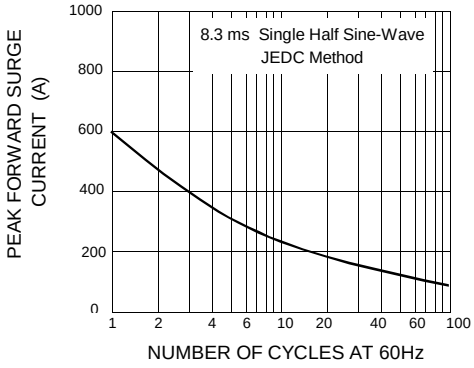


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

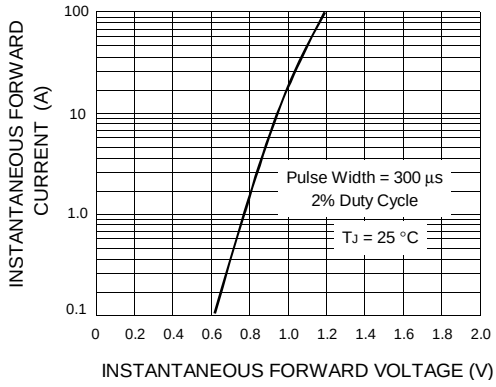


FIG.4 - TYPICAL JUNCTION CAPACITANCE

