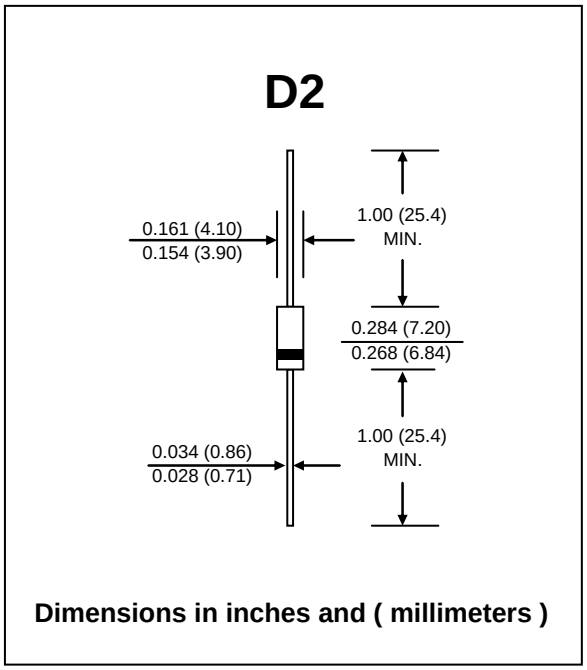
Certificate Number: Q10561

Certificate Number: E17276

1S1885 ~ 1S1888

SILICON RECTIFIER DIODES

PRV : 100 ~ 600 Volts
Io : 1.0 Ampere



FEATURES :

* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Pb / RoHS Free

MECHANICAL DATA :

* Case : D2 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 : 0.465 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	1S1885	1S1886	1S1887	1S1888	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	100	200	400	600	V
Maximum Average Forward Current Ta = 65 °C	I_F	1.0				A
Maximum Peak One Cycle Surge Forward Current	I_{FSM}	60 (50Hz)				A
(Non-repetitive)		66 (60Hz)				
Maximum Forward Voltage at I_F = 1.5 A.	V_F	1.2				V
Maximum Repetitive Peak Reverse Current	I_R	10				μA
(V_{RRM} = Rated)	$I_{R(H)}$	400 (Tj = 150 °C)				
Maximum Thermal Resistance (Junction to Ambient)	$R_{th\ (j-a)}$	100				°C/W
Junction Temperature Range	T_J	- 40 to + 150				°C
Storage Temperature Range	T_{STG}	- 40 to + 150				°C

RATING AND CHARACTERISTIC CURVES (1S1885 - 1S1888)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

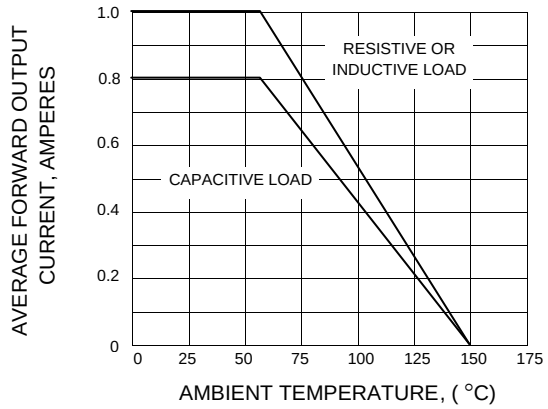


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

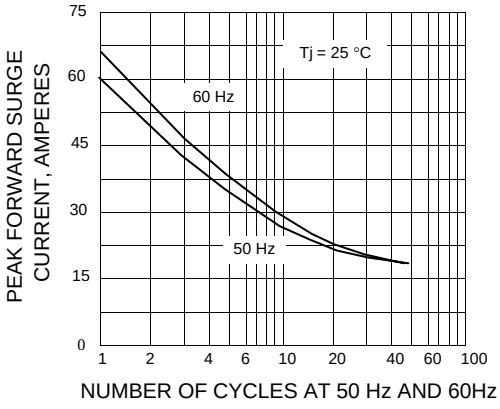


FIG.3 - TYPICAL FORWARD CHARACTERISTICS