

# 1S1885 ~ 1S1888

**PRV : 100 ~ 600 Volts**  
**Io : 1.0 Ampere**

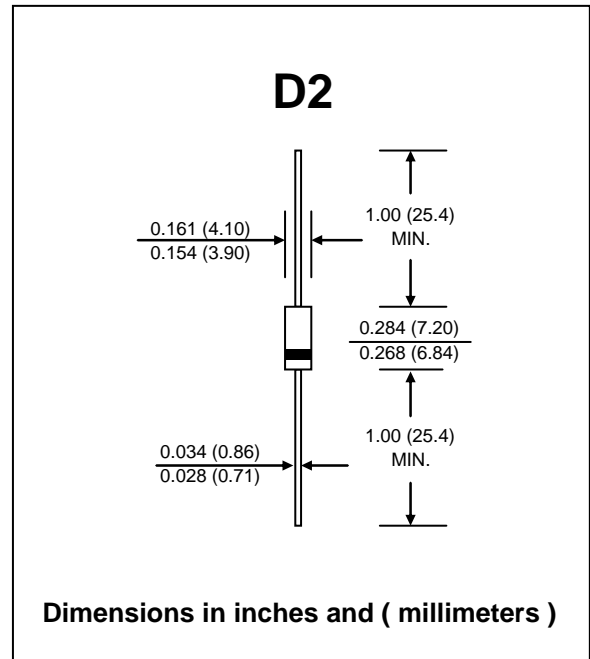
## FEATURES :

- \* 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

## SILICON RECTIFIER DIODES



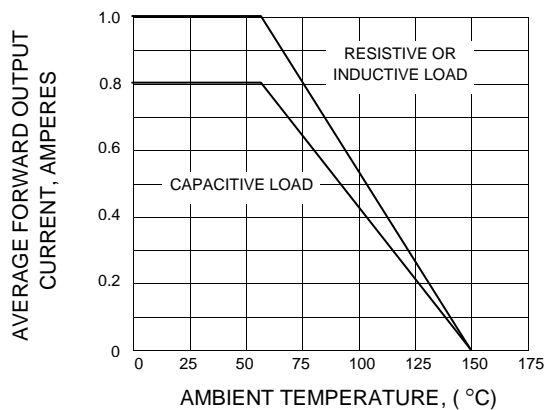
## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

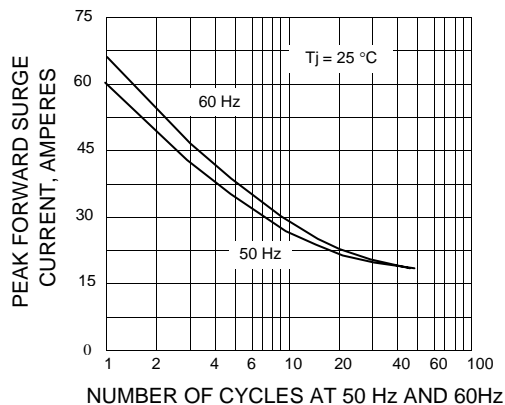
RATING	SYMBOL	1S1885	1S1886	1S1887	1S1888	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	V
Maximum Average Forward Current Ta = 65 °C	I <sub>F</sub>	1.0				A
Maximum Peak One Cycle Surge Forward Current (Non-repetitive)	I <sub>FSM</sub>	60 (50Hz)				A
		66 (60Hz)				
Maximum Forward Voltage at I <sub>F</sub> = 1.5 A.	V <sub>F</sub>	1.2				V
Maximum Repetitive Peak Reverse Current (V <sub>RRM</sub> = Rated)	I <sub>R</sub>	10				μA
	I <sub>R(H)</sub>	400 (T <sub>j</sub> = 150 °C)				
Maximum Thermal Resistance (Junction to Ambient)	R <sub>th(j-a)</sub>	100				°C/W
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150				°C
Storage Temperature Range	T <sub>STG</sub>	- 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**

