

# GP1-16                      THRU                      GP1-20

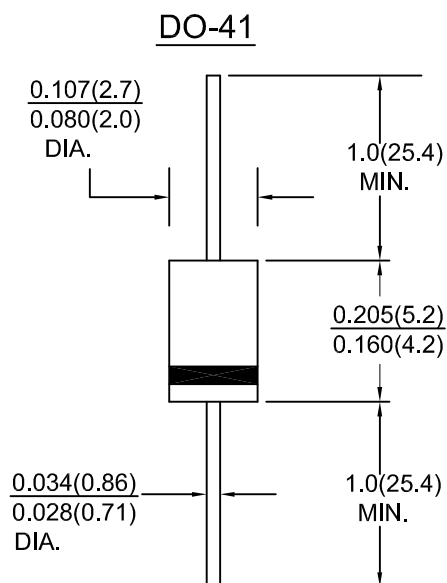
## HIGH VOLTAGE SILICON RECTIFIER

### FEATURES:

- Molded case feature for auto insertion
- High current capability
- Low leakage current
- High surge capability
- High temperature soldering:  
250°C / 10 second / 0.375" (9.5mm) lead length  
at 5 lbs tension

### MECHANICAL DATA

Case: Molded with UL-94 Class V-0 recognized  
flame retardant epoxy  
Terminals: Plated axial solderable per  
MIL-STD-750, Method 2026  
Polarity: Color band denotes cathode  
Mounting Position : Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	Symbol	GP1-16	GP1-18	GP1-20	Units
Maximum recurrent peak reverse voltage	$V_{RRM}$	1600	1800	2000	Volts
Maximum RMS voltage	$V_{RMS}$	1120	1270	1400	Volts
Maximum DC voltage	VDC	1600	1800	2000	Volts
Maximum average forward rectified current at $T_a=55^\circ\text{C}$	$I_{(AV)}$	1.0			Amps
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30			Amps
Maximum instantaneous forward voltage drop per leg at 1.0A	$V_F$	1.1	1.3		Volts
Maximum DC reverse current At DC blocking voltage	$I_R$	$T_a=25^\circ\text{C}$ 5	10		$\mu\text{A}$
		$T_a=100^\circ\text{C}$	100		
Operating Junction and storage temperature range	$T_J, T_{stg}$	-55 to +175	-65 to +150		$^\circ\text{C}$

# RATINGS AND CHARACTERISTIC CURVES GP1-16 THRU GP1-20

