

GENERAL PURPOSE SILICON RECTIFIER VOLTAGE RANGE 50 TO 1000 Volts Current 1 Ampere

FEATURES

- * Low cost construction
- * Low forward voltage drop
- * Low reverse leakage
- * High forward surge current capability
- *High temperature soldering guaranteed 260 /10 seconds, 0.375"(9.5 mm) lead length at 5 lbs(2.3kg) tension

MECHANICAL DATA

* Case: Transfer Molded Plastic

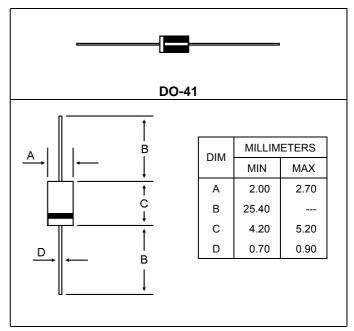
* Epoxy: UL94V-O rate flame retardant

* Terminals: Solderable Per MIL-STD-202 Method 208

* Polarity: Color band denotes cathode end

* Mounting position: Any

*Weight: 0.012 ounce. 0.33 gram (approx)



MAXIMUM RATINGS AND ELECTRICAL CHARATERISTICS

- * Rating at 25 ambient temperature unless otherwise specified
- * Single phase, half wave. 60Hz, resistive or inductive load.

* For capacitive load derate current by 20 %

Characteristic	Symbol	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	$egin{array}{c} V_{RRM} \ V_{RWM} \ V_{R} \end{array}$	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	$V_{\text{R}(\text{RMS})}$	35	70	140	280	420	560	700	٧
Average Rectifier Forward Current Per Leg T _C =125	$I_{F(AV)}$	1.0					Α		
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions halfware, single phase, 60Hz)	I _{FSM}	30					А		
Maximum Instantaneous Forward Voltage ($I_F = 1.0 \text{ Amp T}_C = 25$)	V _F	1.1					V		
Maximum Instantaneous Reverse Current (Rated DC Voltage, $T_C = 25$) (Rated DC Voltage, $T_C = 100$)	I _R				5.0 50				uA
Typical Junction Capacitance (Reverse Voltage of 4 volts & f=1 MHz)	C _j	15					pF		
Typical Thermal Resistance	$R_{\theta jA}$	50					/W		
Operating and Storage Junction Temperature Range	T_J , T_{stg}	-65 to +175							

