FEATURES

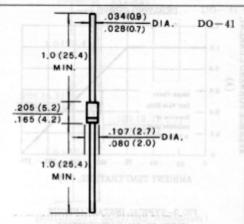
- · Low cost construction
- · Low forward voltage drop
- · Low reverse leakage
- · High forward surge current capability
- High temperature soldering guaranteed;
 260°C/10 seconds/. 375" (9.5mm)lead length at 5 lbs(2,3kg) tension

MECHANICAL DATA

- · Case : Transfer molded plastic
- Epoxy; UL94V 0 rate flame retardant
- · Polarity; Color band denotes cathode end
- Lead, Plated axial lead, solderable per MIL —STD—202E method 208C
- · Mounting position : Any
- Weight; 0. 012 ounce, 0. 33 gram

VOLTAGE RANGE CURRENT

NGE 50 to 1000 Volts 1. 0 Ampere



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

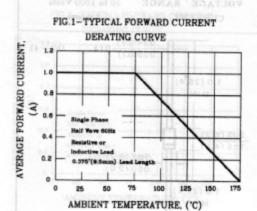
For capacitive load derate current by 20%.

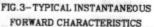
		SYMBOLS	1N 4001	1N 4002	1N 4003	1N 4004	1N 4005	1N 4006	1N 4007	UNITS		
Maximum Repetitive Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts		
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	Volts		
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	Volts		
Maximum Average Forward Rectified Current 0. 375"(9. 5mm) lead length at T _A =75°C		I _(AV)	1.0						Amp			
Peak Forward Surge Current 8. 3ms single half sine — wave superimposed on rated load (JEDEC Method)		I _{PSM}	STANTAMEOUS FORWARDS VOLTAGE (V)						Amps			
Maximum Instantaneous Forward Voltage at 1. 0A		V _F	C.S-TYPICAL JUNCTICAL CAPACITANCE						Volts			
Maximum DC Reverse Current at rated DC blocking voltage	T_A=25°C	IR	5. 0						odr ^y sups			
	TA=100°C	1R				50				μAmps		
Maximum Full Load Reverse Current, full cycle average 0.375" (9.5mm)lead length at T _L =75°C		I _{R(AV)}	30						μAmps			
Typical Junction Capacitance (NOTE 1)		C,	15						pF			
Typical Thermal Resistance (NOTE 2)		R. JA	50						C/W			
Operating and Storage Temperature Range		T _J ,T _{STG}	-65 to+175						rc			
NOTEC				11111111		-	-					

NOTES:

- 1. Measured at 1. 0 MHz and applied reverse voltage of 4. 0 Volts.
- 2. Thermal Resistance from Junction to Ambient at. 375"(9.5mm)lead length, P. C. board mounted with 0.2" \times 0.2" (5.0 \times 5.0mm)copper pads.

RATINGS AND CHARACTERISTIC CURVES IN4001 THRU IN4007





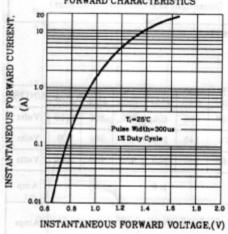


FIG.5-TYPICAL JUNCTION CAPACITANCE

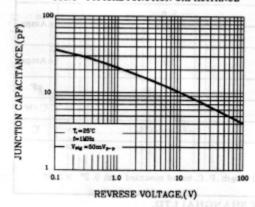


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

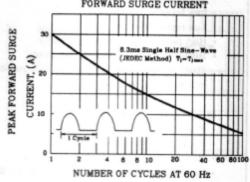
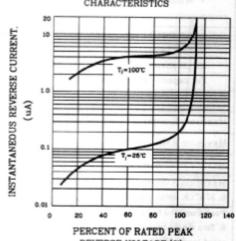


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



REVERSE VOLTAGE,(%)