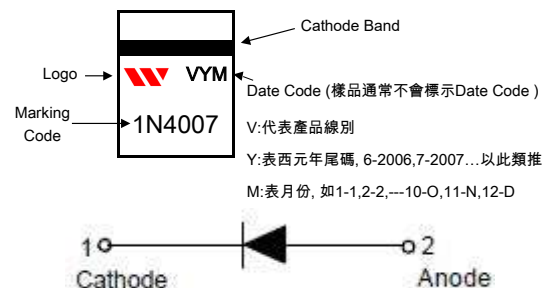


General Purpose Plastic Rectifier Axial Leaded-1A
PRIMARY CHARACTERISTICS

V_{RRM}	50V~1000V
$I_{F(AV)}$	30A
V_F	1.1V
$T_{J,Max}$	150°C

**SCHEMATIC DIAGRAM
DO-41 PACKAGE**
Body Marking

FEATURES

- Low forward voltage drop
- Low leakage current
- High forward surge current capability
- High temperature soldering
guaranteed : 260°C/40 seconds

MECHANICAL DATA

- Case : Molded plastic,DO-41
- Polarity : Color band denotes cathode
- Terminals :Plated terminals, solderable
per J-STD-002 and JESD22-B102
- Epoxy : UL94-V0 rated flame retardant

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 current by 20%

PARAMETER	SYMBOL	1N4001GA	1N4002GA	1N4003GA	1N4004GA	1N4005GA	1N4006GA	1N4007GA	UNIT
	MARKING	1N4001	1N4002	1N4003	1N4004	1N4005	1N4006	1N4007	
Maximum repetitive peak reverse voltage	V_{RRM}	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 TA=75 °C	$I_{(AV)}$	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30.0							Amps
Maximum instantaneous forward voltage at 1.0A	V_F	1.1							Volts
Maximum DC reverse current TA=25 °C at rated DC blocking voltage TA=100 °C	I_R	5.0 50.0							µA
Typical junction capacitance (NOTE 1)	C_J	15.0							pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$	50.0							°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +150							°C

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length,P.C.B. mounted



General Purpose Plastic Rectifier Axial Leaded-1A

Ratings and Characteristic Curves

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

FIG. 1 - FORWARD CURRENT DERATING CURVE

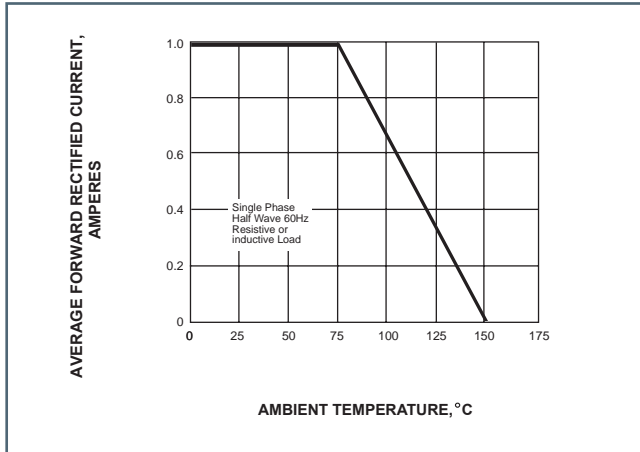


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

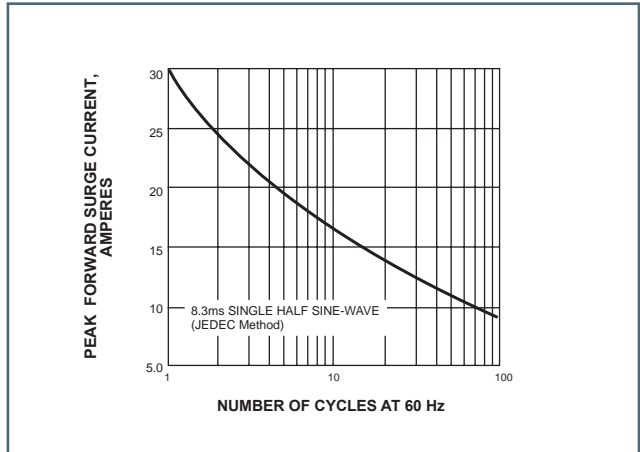


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

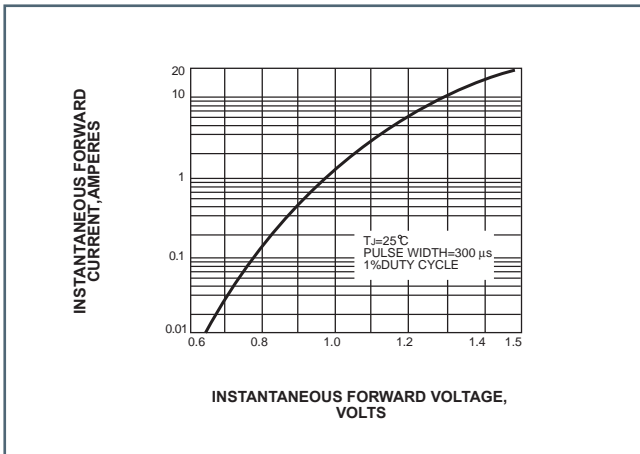
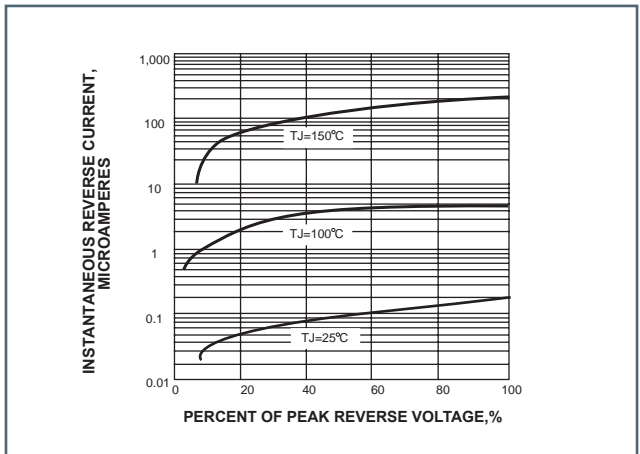


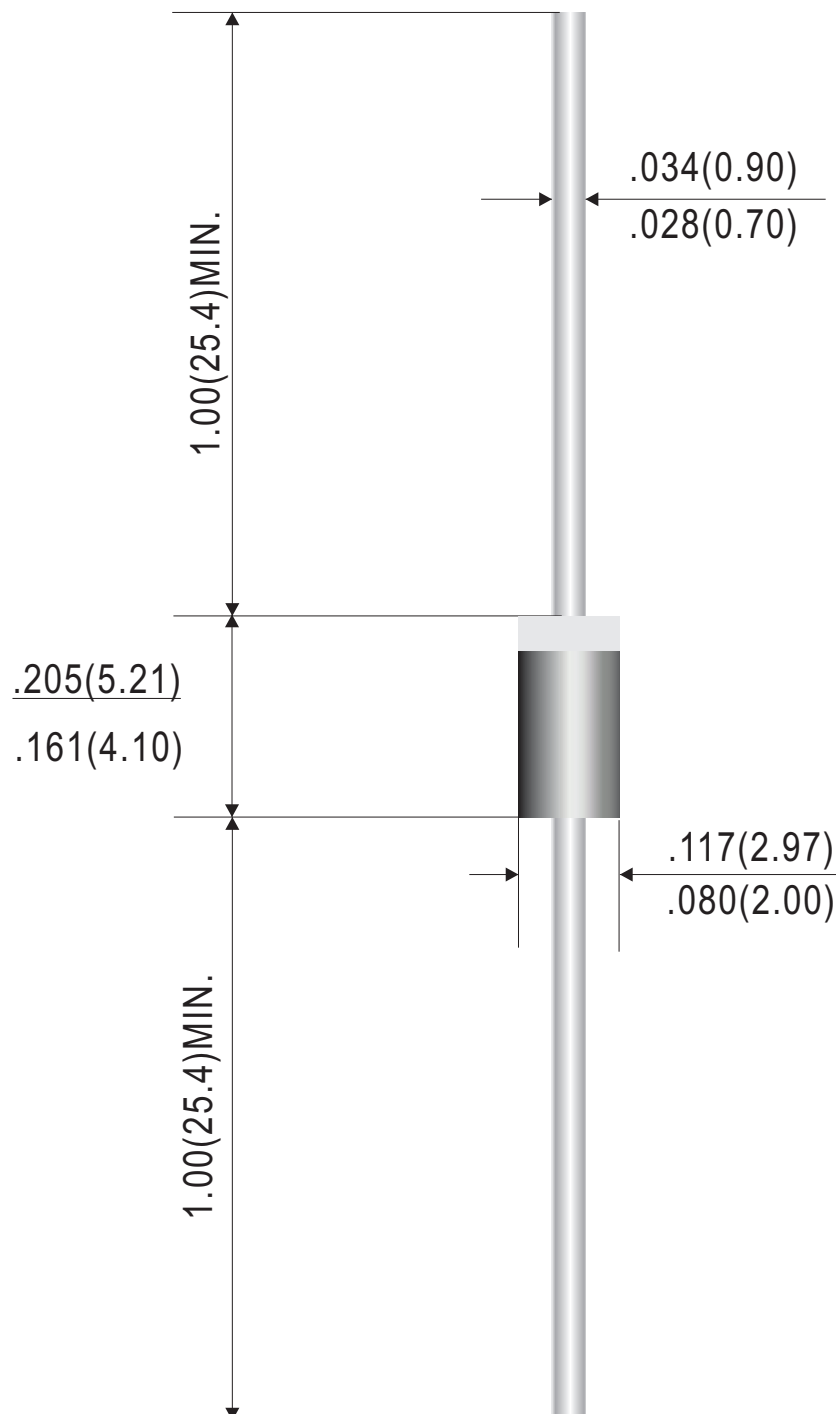
FIG. 4 - TYPICAL REVERSE CHARACTERISTICS





Outline Drawing

DO-41



Dimensions in inches and (millimeters)

Rev.C



Ordering Information:

Device PN	Marking ⁽⁴⁾	Packing
Part Number -F ⁽¹⁾ G ⁽²⁾ -WS ⁽³⁾	Page.1 Table	Ammo Packing:5000pcs/Box

Note: (1) "F ":Tape pitch specifications & Ammo Packing

(2) Packing code suffix "G"for RoHS product ; Packing code Suffix"H" for halogen free product
All materials and products supplied comply with the U.S. Toxic Substances Control Act
statement, PBT Chemicals

(3) WS : Willas brand abbreviation, Label Type does not display

(4) There may be additional marking, which relates to the lot trace code information (data
code and vendor code), the logo or the environmental category on the device

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