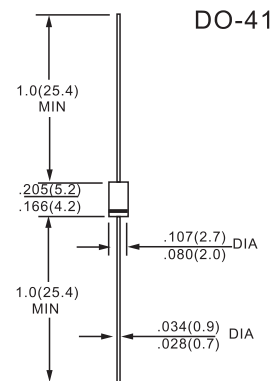


FEATURES :

- * Glass passivated chip
- * High current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop

MECHANICAL DATA :

- * Case : DO-41 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 : 0.339 gram



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATING	SYMBOL	1N 4001G	1N 4002G	1N 4003G	1N 4004G	1N 4005G	1N 4006G	1N 4007G	BY 133G	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	1300	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	910	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	1300	Volts
Maximum Average Forward Current 0.375"(9.5mm) Lead Length $T_a = 75^\circ C$	$I_{F(AV)}$	1.0								Amp.
Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method)	I_{FSM}	30								Amps.
Maximum Forward Voltage at $I_F = 1.0$ Amp.	V_F	1.0								Volts
Maximum DC Reverse Current $T_a = 25^\circ C$	I_R	5.0								μA
at rated DC Blocking Voltage $T_a = 100^\circ C$	$I_{R(H)}$	50								μA
Typical Junction Capacitance (Note1)	C_J	8								pF
Typical Thermal Resistance (Note2)	$R_{\theta JA}$	45								$^\circ C/W$
Junction Temperature Range	T_J	- 65 to + 175								$^\circ C$
Storage Temperature Range	T_{STG}	- 65 to + 175								$^\circ C$

Notes : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0VDC
(2) Thermal resistance from Junction to Ambient at 0.375" (9.5mm) Lead Lengths, P.C. Board Mounted.



TAYCHIPST

GLASS PASSIVATED GENERAL PURPOSE RECTIFIERS

1N4001G-1N4007G,BY133G

50V-1000V

1.0A

FIG. 1 - FORWARD CURRENT DERATING CURVE

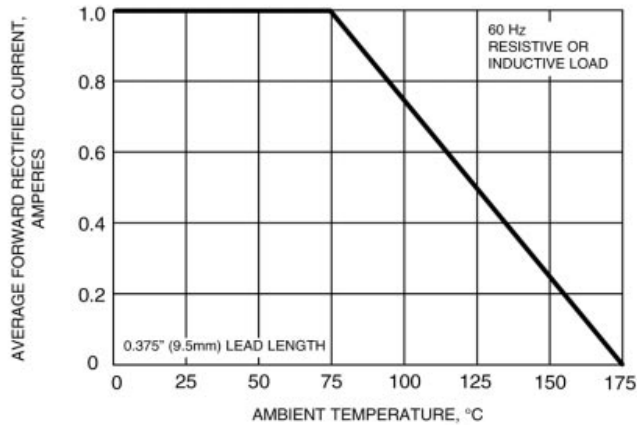


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

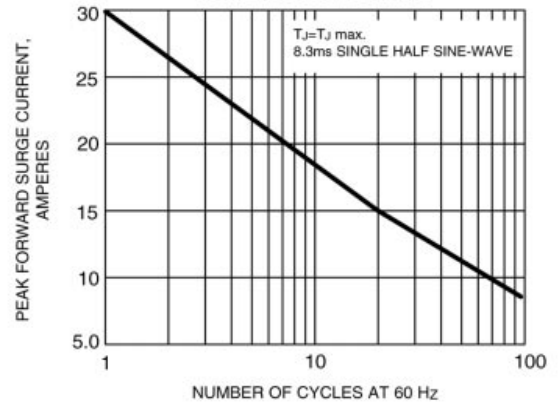


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

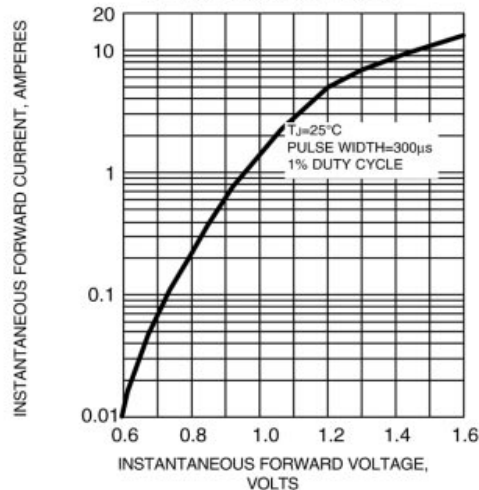


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

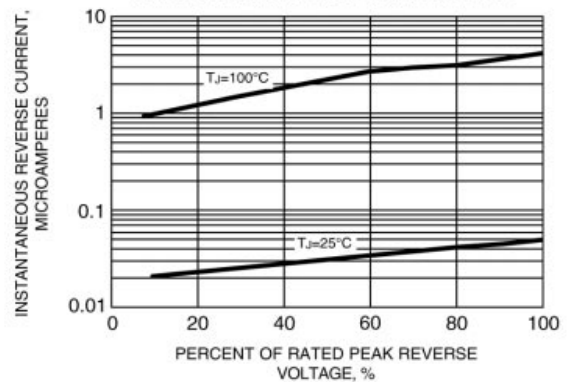


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

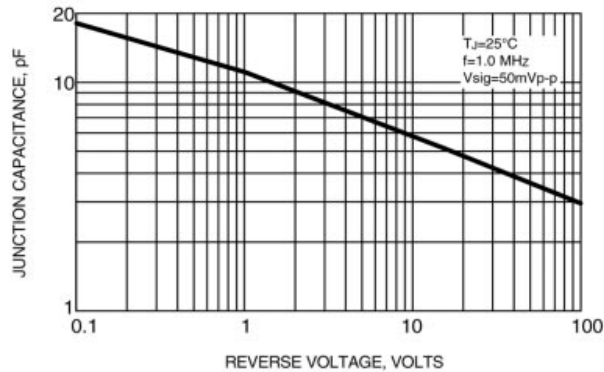


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

