

■ Features

- $I_o = 3A$
- $V_{RRM} = 1600V$
- Axial lead type devices for through hole design.
- High current capability.
- High surge capability.
- Glass passivated chip junction inside.
- Suffix "G" indicates Halogen-free part, ex. GP30YG.
- Lead-free parts meet environmental standards of MIL-STD-19500 /228

■ Application

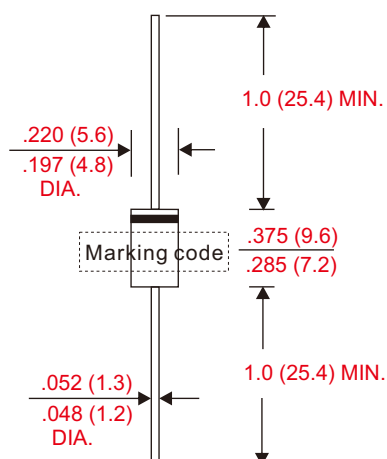
- Rectifier

■ Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : Molded plastic, DO-201AD / DO-27
- Lead : Axial leads, solderable per MIL-STD-202, Method 208 guranteed
- Polarity : Color band denotes cathode end
- Weight : Approximated 1.10 gram

■ Outline

DO-27(DO-201AD)



Dimensions in inches and (millimeters)

■ Limiting Value (Absolute Maximum Rating)

Parameter	Conditions	Symbol	Value	UNIT
Repetitive peak reverse voltage		V_{RRM}	1600	V
Average forward current	60Hz half-sine wave, resistance load, $T_a = 75^\circ C$	$I_{F(AV)}$	3	A
Surge (non- repetitive) forward current	60Hz half-sine wave, 1 cycle, $T_a = 25^\circ C$	I_{FSM}	150	
Junction temperature		T_J	-55 ~ + 150	$^\circ C$
Storage temperature		T_{STG}	-55 ~ + 150	

■ Electrical characteristics ($T_a = 25^\circ C$ unless otherwise specified.)

Parameter	Conditions	Symbol	Max. Value	UNIT
Peak forward voltage	$I_{FM} = 3A$	V_{FM}	1.1	V
Peak reverse current	$V_{RM} = V_{RRM}, T_a = 25^\circ C$	I_{RRM1}	2.5	μA
	$V_{RM} = V_{RRM}, T_a = 125^\circ C$	I_{RRM2}	50	
Thermal resistance (Typical)	Between junction and ambient	$R_{\theta J-A}$	30	$^\circ C/W$
Typical junction capacitance	Measured at 1MHz and applied reverse voltage of 4.0 V.D.C.	C_J	60	pF

■ Rating and characteristic curves

FIG.1 FORWARD CURRENT DERATING CURVE

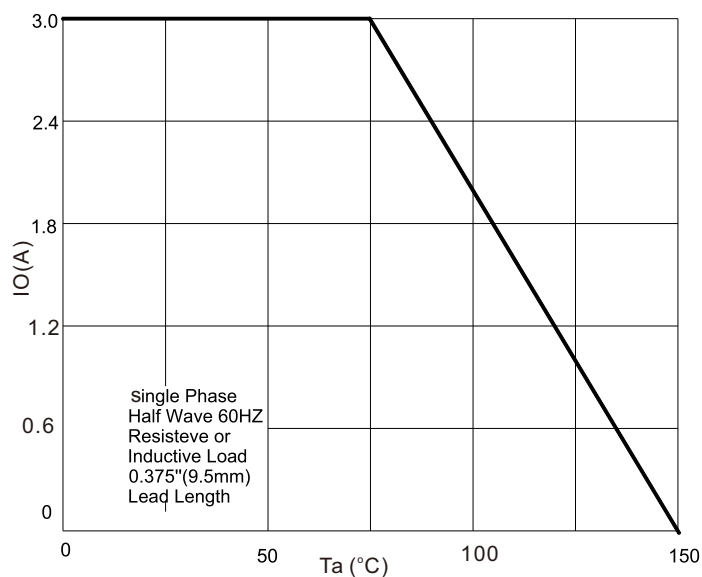


FIG.2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

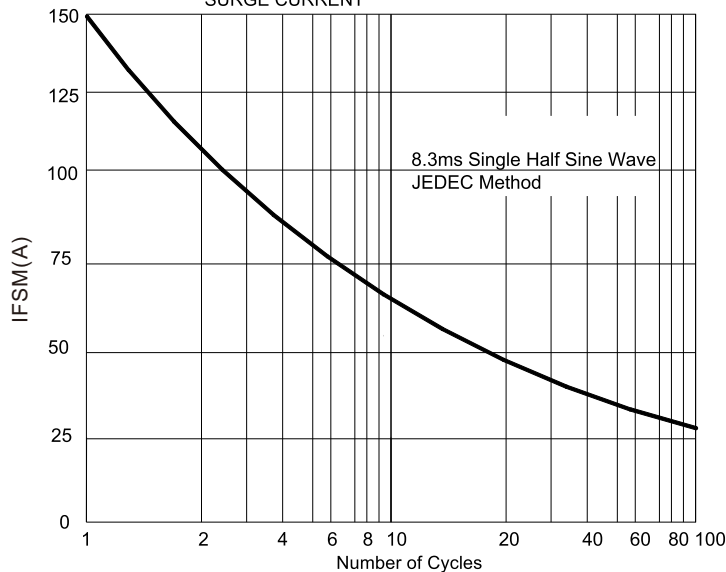


FIG.3 TYPICAL FORWARD CHARACTERISTICS

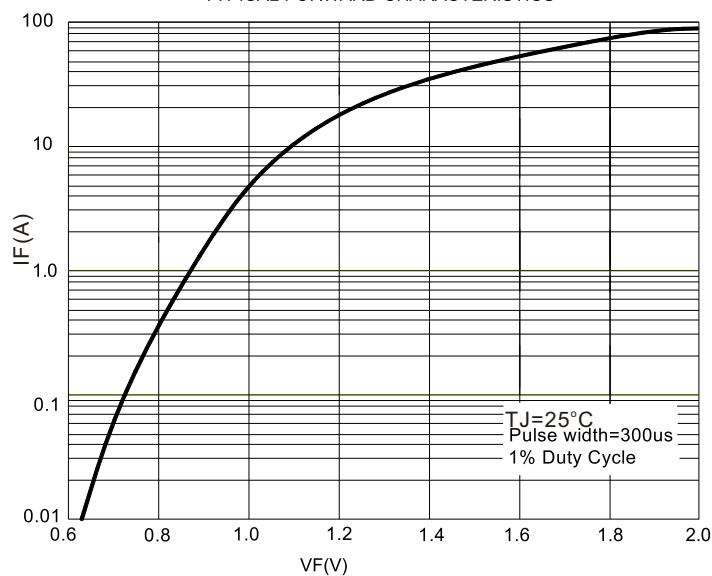
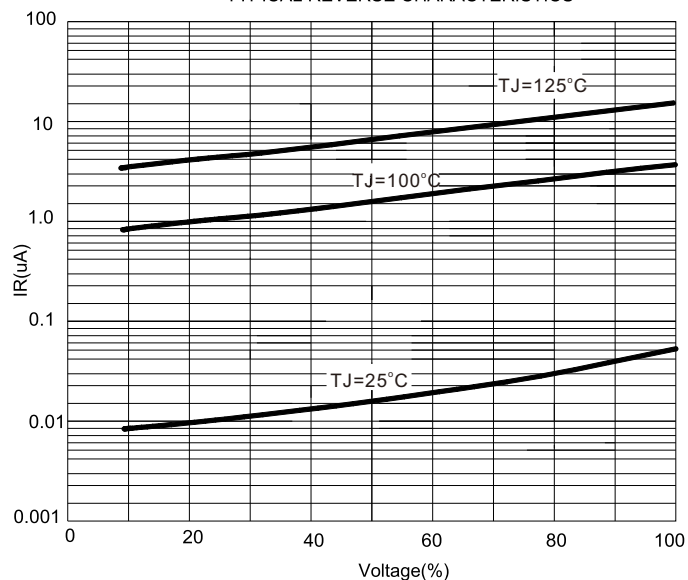


FIG.4 TYPICAL REVERSE CHARACTERISTICS



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