



**SUPER FAST RECOVERY GLASS PASSIVATED RECTIFIER**

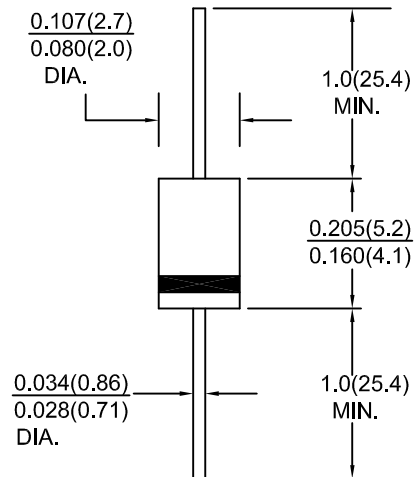
**DO-204AL/DO-41**

**FEATURES:**

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

**MECHANICAL DATA**

Case : Molded plastic  
 Epoxy: UL 94V-0 rate flame retardant  
 Lead : Axial leads solderable per MIL-STD-202  
 Method 2028 guaranteed  
 Polarity : Color band denotes cathode end  
 Mounting Position : Any  
 Mounting Torque 5 In - lbs.max  
 Weight : 0.34 grams



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%.

Characteristic	Symbol	SF 11G	SF 12G	SF 13G	SF 14G	SF 15G	SF 16G	SF 17G	Units	
Maximum recurrent peak reverse voltage	$V_{RRM}$	50	100	150	200	300	400	600	Volts	
Maximum RMS voltage	$V_{RMS}$	35	70	105	140	210	280	420	Volts	
Maximum DC blocking voltage	$V_{DC}$	50	100	150	200	300	400	600	Volts	
Maximum average forward rectified current .375"(9.5mm) lead length at $T_a=55^\circ C$	$I_{(AV)}$	1.0							Amps	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	30							Amps	
Maximum instantaneous forward voltage $I_F=1.0A$	$V_F$	0.95			1.25		1.70		Volts	
Maximum DC reverse current at rated DC blocking voltage $T_a=25^\circ C$ $T_a=125^\circ C$	$I_R$					5.0		100		$\mu A$
Maximum reverse recovery time ( NOTE 1 )	$T_{RR}$					35				ns
Typical Junction Capacitance( NOTE 2)	$C_J$					50				Pf
Operating temperature range	$T_J$					-65to+150				°C
Storage temperature range	$T_{Stg}$					-65to+175				°C

NOTES :  
 1.Reverse recovery test condition :  $I_F=0.5A$  ;  $I_R=1.0A$  ;  $IRR=0.25A$   
 2.Measured 1MHZ and applied reverse voltage of 4.0VDC



RATINGS AND CHARACTERISTIC CURVES

FIG.1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

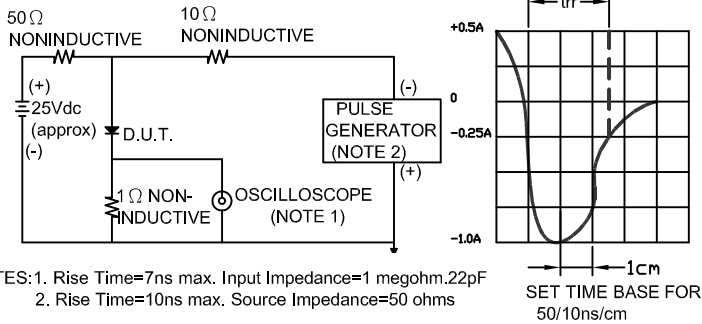


FIG.2 - TYPICAL FORWARD CURRENT DERATING CURVE

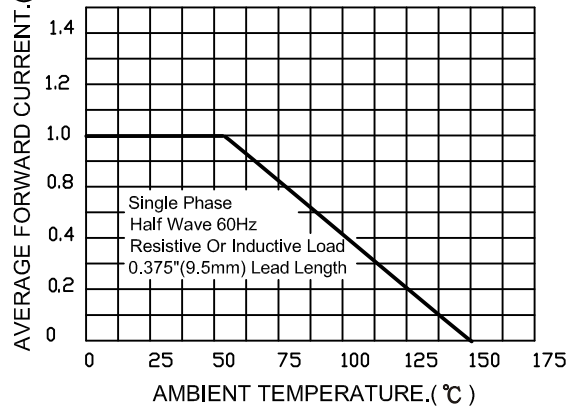


FIG.3-TYPICAL FORWARD CHARACTERISTICS

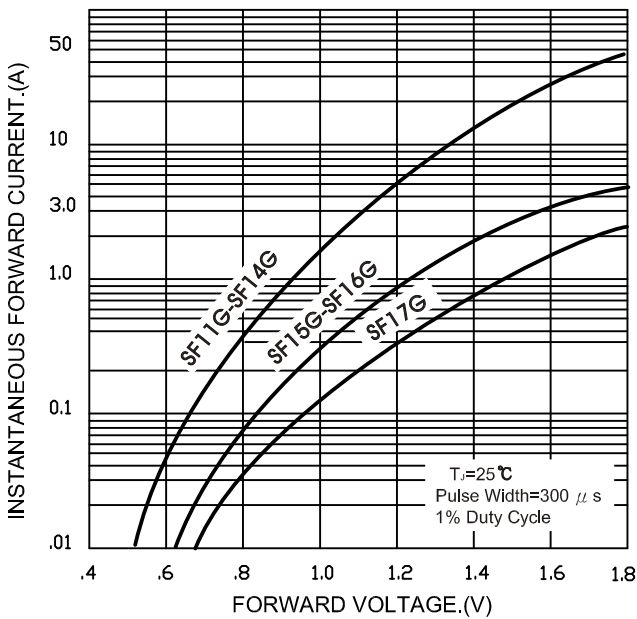


FIG.4-TYPICAL REVERSE CHARACTERISTICS

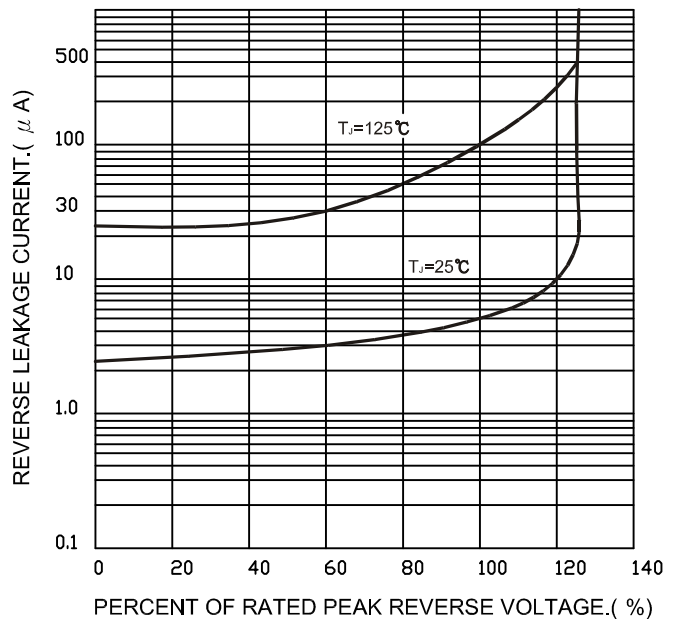


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

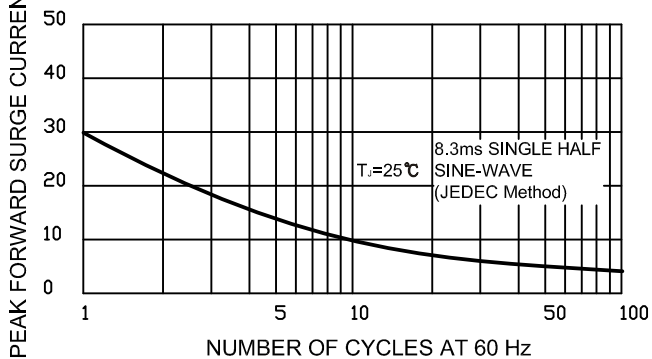
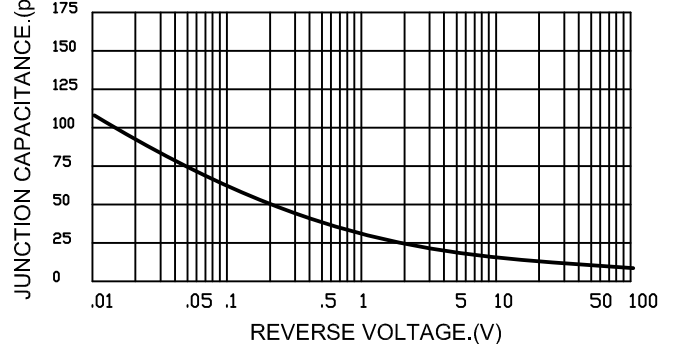


FIG.6-TYPICAL JUNCTION CAPACITANCE





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