



**CG1  
&  
DG1**

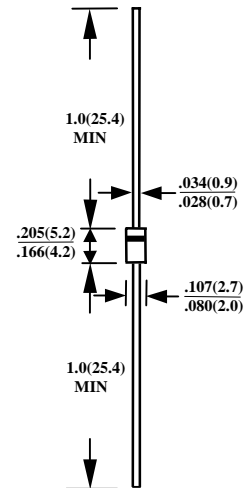
**CLAMPER/DAMPER RECTIFIER**

**FEATURES**

- DESIGNED FOR CLAMPING ,DAMPING CIRCUIT OF HORIZONTAL DEFLECTION SYSTEM
- PLASTIC PACKAGE HAS UNDERWRITERS LABORATORY FLAMMABILITY CLASSIFICATION 94V-0
- VOID-FREE MOLDED PLASTIC
- HIGH TEMPERATURE SOLDERING GUARANTEED : 260°C/10 SECONDS/.375" (9.5mm) LEAD LENGTH/5 LBS. (2.3KG)

**MECHANICAL DATA**

- CASE : MOLDED CASE
- TERMINAL : AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY : COLOR BAND DENOTES CATHODE
- MOUNTING POSITION : ANY
- WEIGHT : 0.34 GRAMS



CASE : DO41  
DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS  
RATINGS 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%

RATINGS	SYMBOL	CG1	DG1	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	1400	1500	V
MAXIMUM RMS VOLTAGE	$V_{RMS}$	980	1050	V
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	1400	1500	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (SEE FIG.1)	$I_O$	1.5		A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	40		A
TYPICAL JUNCTION CAPACITANCE (NOTE 2)	$C_j$	15		PF
TYPICAL THERMAL RESISTANCE (NOTE 3)	$R_{\theta ja}$	50		°C/W
STORAGE TEMPERATURE RANGE	$T_{STG}$	- 55 TO + 150		°C
OPERATING TEMPERATURE RANGE	$T_{OP}$	-55 TO + 125		°C

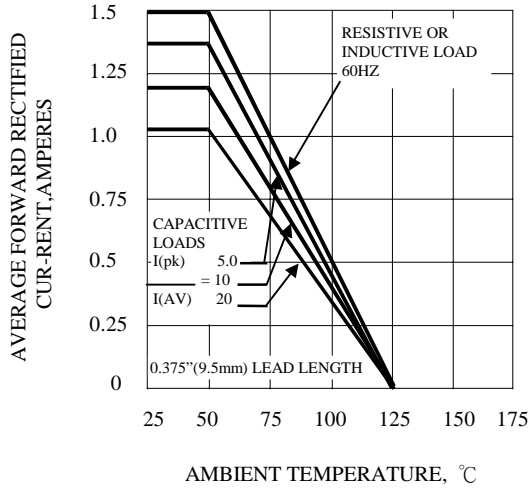
**ELECTRICAL CHARACTERISTICS ( $A_T T_A = 25^\circ C$  UNLESS OTHERWISE NOTED)**

CHARACTERISTICS	SYMBOL	CG1	DG1	UNITS
MAXIMUM FORWARD VOLTAGE AT $I_O$ DC	$V_F$	1.1		V
MAXIMUM REVERSE CURRENT AT 25°C	$I_R$	5		$\mu A$
MAXIMUM REVERSE CURRENT AT 100°C	$I_R$	50		$\mu A$
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	$T_{RR}$	15	20	$\mu S$

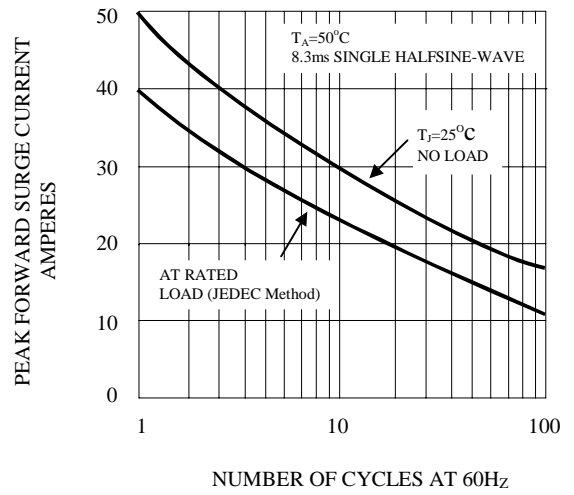
- NOTE : 1. REVERSE RECOVERY TEST CONDITIONS:  $I_F=0.5A, I_R=50mA$   
 2. MEASURED AT 1MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS  
 3. BOTH LEADS ATTACHED TO HEATSINK 20x20x1t(mm) COPPER PLATE AT LEAD LENTH 5mm

# RATINGS AND CHARACTERISTIC CURVES CG1 THRU DG1

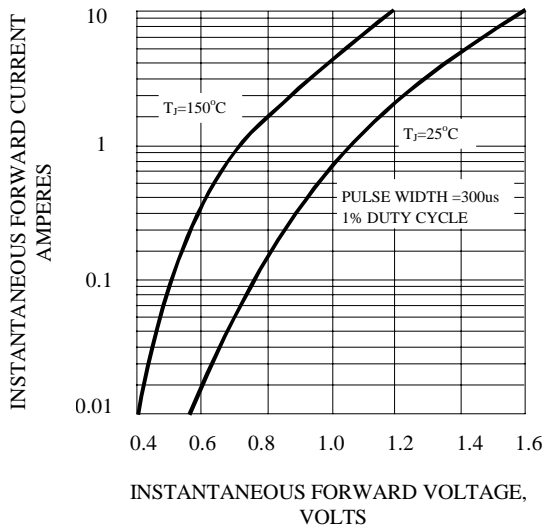
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



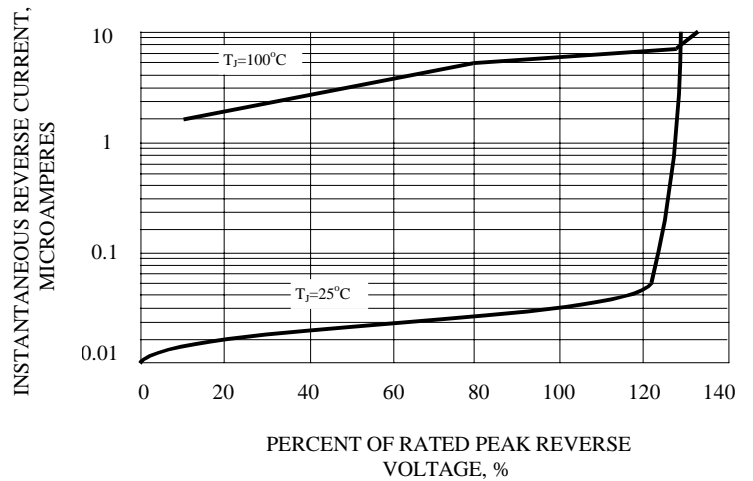
**Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT**



**FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 3 - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 5 - TYPICAL JUNCTION CAPACITANCE**

