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CLAMPER/DAMPER RECTIFIER

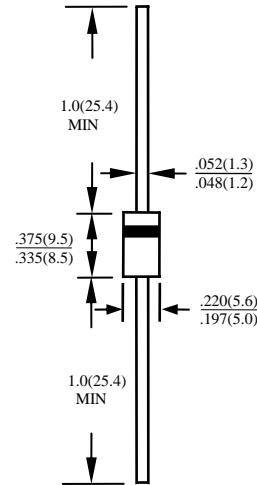
CG3 & DG3

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/0.375" (9.5mm) LEAD LENGTH/5 LBS. (2.3KG)

MECHANICAL DATA

- CASE: MOLDED CASE, DO201AD, DIMENSIONS IN INCHES AND (MILLIMETERS)
- TERMINAL: AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY: COLOR BAND DENOTES CATHODE
- MOUNTING POSITION: ANY
- WEIGHT: 1.2 GRAMS



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	CG3	DG3	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	3.0		A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	100		A
TYPICAL JUNCTION CAPACITANCE (NOTE 2)	C_J	40		PF
TYPICAL THERMAL RESISTANCE (NOTE 3)	$R_{\theta ja}$	20		°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	CG3	DG3	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	1.2		V
MAXIMUM REVERSE CURRENT AT 25°C	I_R	5		μA
MAXIMUM REVERSE CURRENT AT 100°C	I_R	50		μA
MAXIMUM REVERSE RECOVERY TIME (NOTE 1)	T_{RR}	15	20	μS

- 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 HEAT SINK 63.5×63.5×1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

RATINGS AND CHARACTERISTIC CURVES CG3 THRU DG3

FIG. 1 - FORWARD CURRENT DERATING CURVE

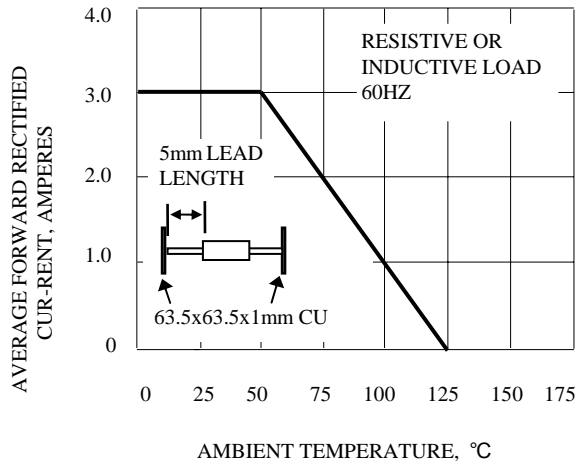


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

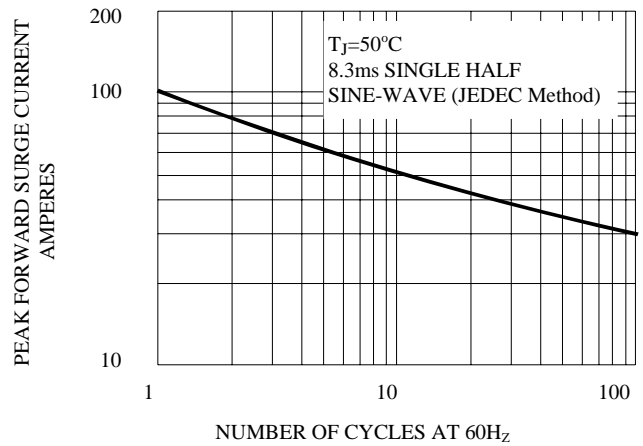


FIG. 3 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

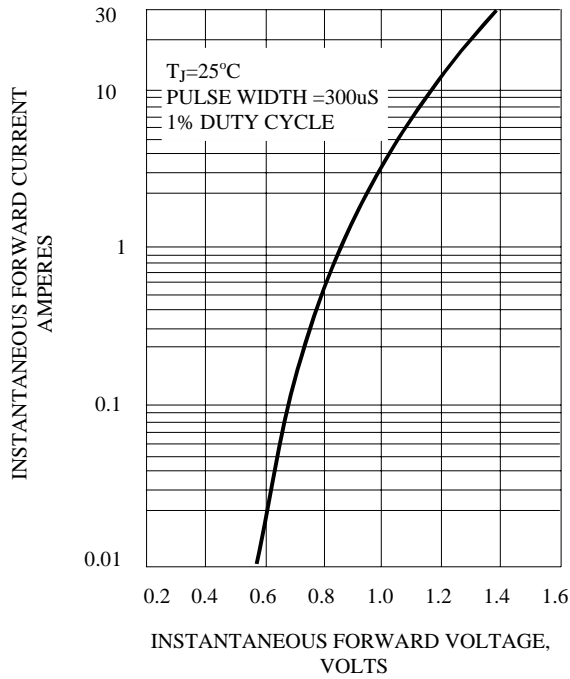


FIG. 4 -TYPICAL REVERSE CHARACTERISTICS

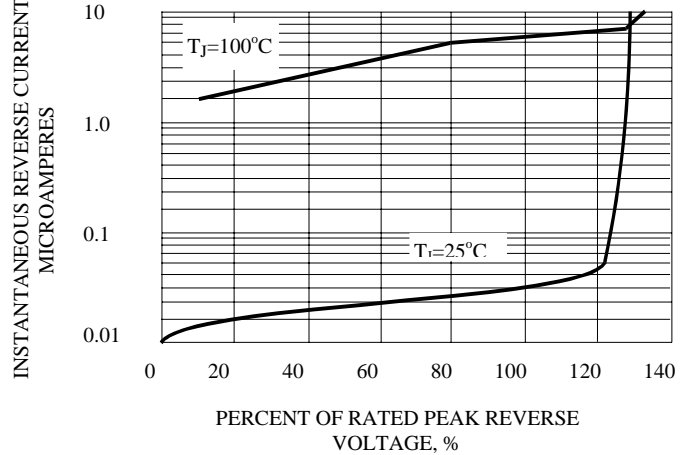


FIG. 5-TYPICAL JUNCTION CAPACITANCE

