FRONTIER
ELECTRONICS CO., LTD.

CG3 & DG3

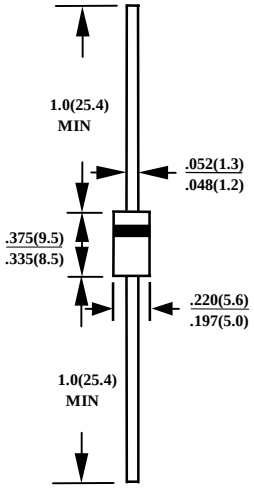
CLAMPER/DAMPER RECTIFIER

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℃/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 ：1.2 GRAMS



CASE-DO201AD

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	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		℃/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150		℃
OPERATING TEMPERATURE RANGE	T_{OP}	-55 TO + 125		℃

ELECTRICAL CHARACTERISTICS (A_T T_A =25°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℃	I_R	5		μA
MAXIMUM REVERSE CURRENT AT 100℃	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 ATTATCHED TO HEATSINK63.5×63.5×1t(mm) COPPER PLATE AT LEAD LENTH 5mm

RATINGS ANSD CHARACTERISTIC CRVES CG3 THRU DG3

FIG. 1 - FORWARD CURRENT DERATING CURVE

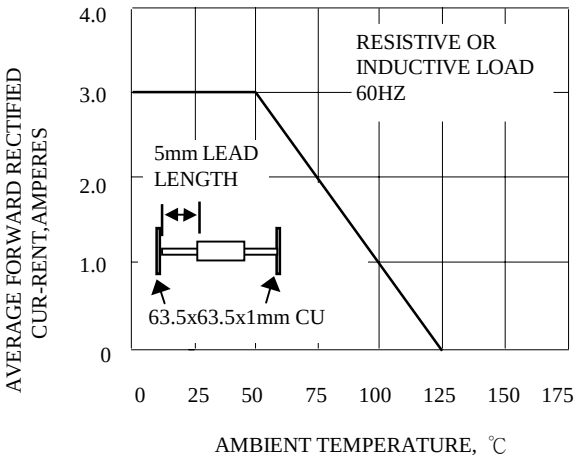


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

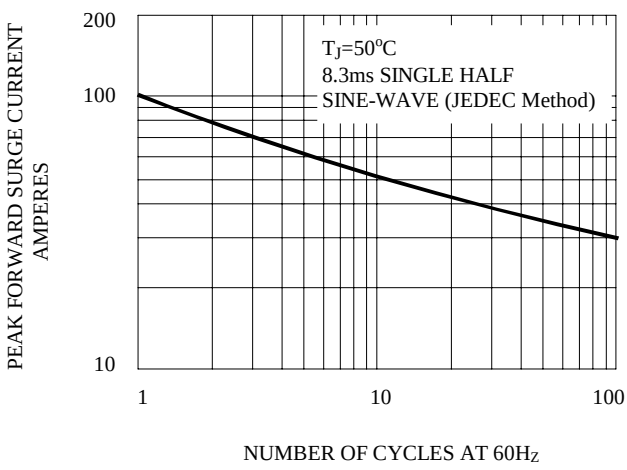


FIG. 3 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

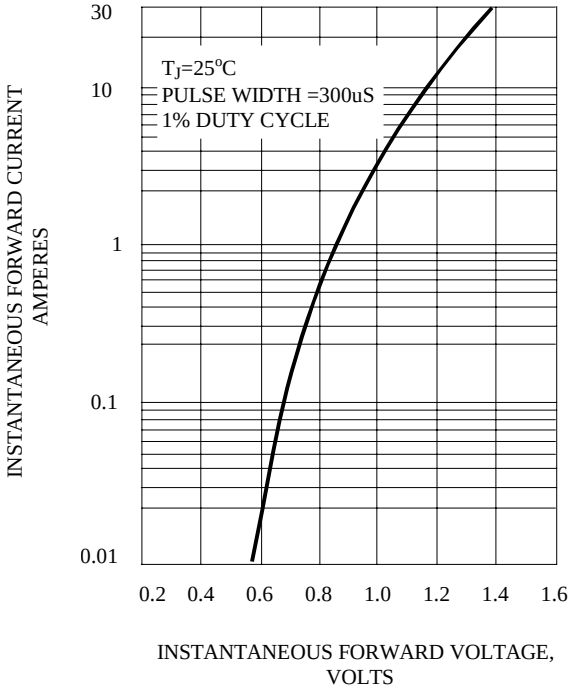


FIG. 4 -TYPICAL REVERSE CHARCTERISTICS

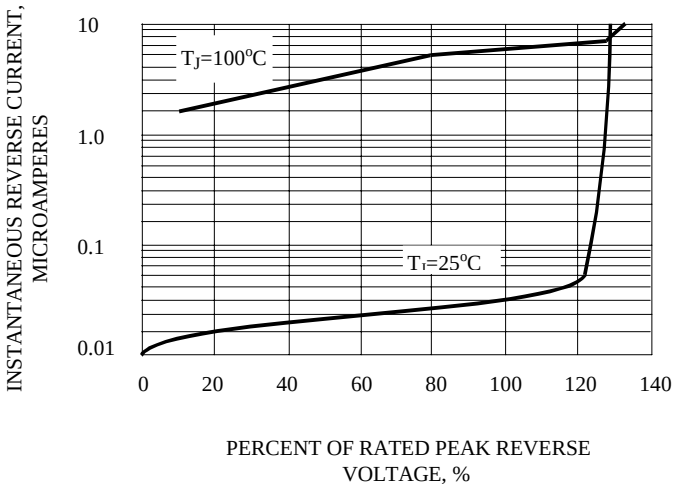


FIG. 5-TYPICAL JUNCTION CAPACITANCE