FRONTIER
ELECTRONICS CO., LTD.

CG1 & DG1

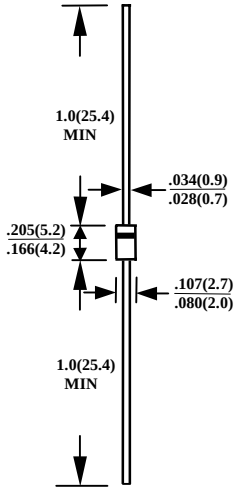
CLAMPER/DAMPER RECTIFIER

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℃/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		℃/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	CG1	DG1	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	1.1		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	uS

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 HEATSINK 20x20x1t(mm) COPPER PLATE AT LEAD LENTH 5mm

RATINGS ANSD CHARACTERISTIC CRVES CG1 THRU DG1

FIG. 1 - FORWARD CURRENT DERATING CURVE

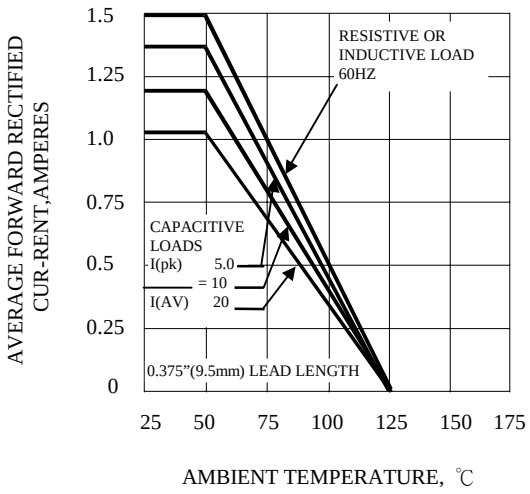


Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

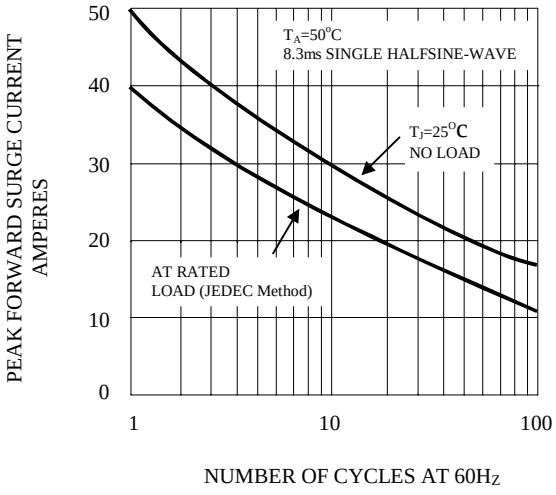


FIG. 3 -TYPICAL REVERSE CHARCTERISTICS

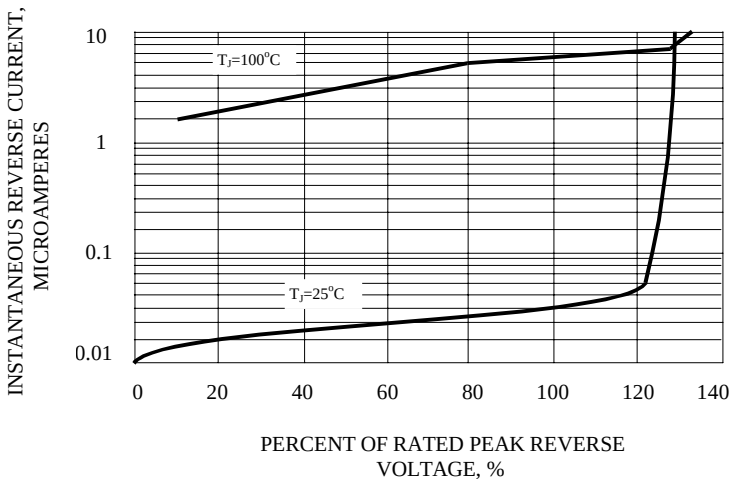


FIG. 4 -TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

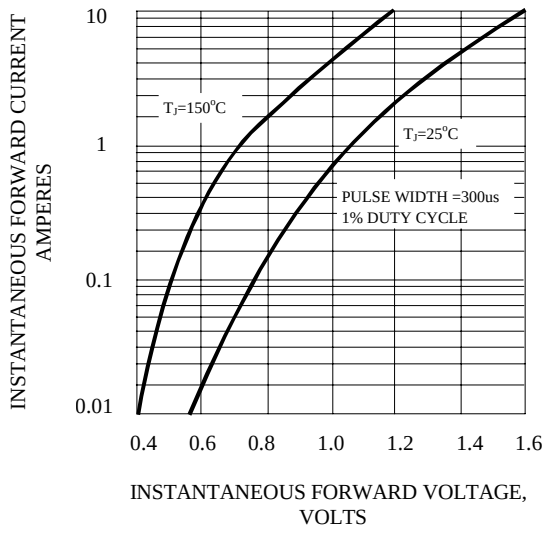


FIG. 5 -TYPICAL JUNCTION CAPACITANCE