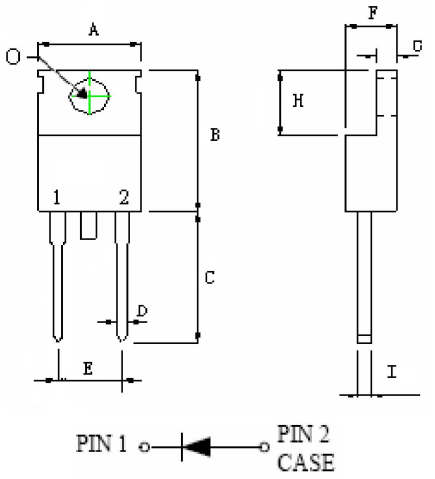
PECLERS ®

MUR820 THRU MUR860

8Amp Super Fast Glass Passivated Rectifier 200 to 600 Volts

TO-220AC



PACKAGE	TO-220AC
208 A	9.9~10.5
B	15.6~15.85
C	13.05~13.75
D	0.68~0.94
EF	4.95~5.20
G	4.44~4.70
H	1.14~1.405
	.84~6.86
I	0.35~0.64
O	3.55~4.1
UNITS	MILLIMETERS

FEATURES

GLASS PASSIVATED CHIP
SUPERFAST SWITCHING TIME FOR HIGHT EFFICIENCY
LOW REVERSE LEAKAGE CURRENT
HIGH SURGE CAPACITY
HALOGEN FREE
CASE MATERIAL:MOLDED PLASTIC. UL FLAMMABILITY CLASSIFICATION RATING 94V-0

MECHANICALDATA

CASE: TRANSFER MOLDED
LEADS : SOLDERABLE PER MIL-STD-202,METHOD
POLARITY : AS MARKED
WEIGHT : 2.05 GRAMS

RATINGS	SYMBOL	MUR820	MUR840	MUR860	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	200	400	600	V
MAXIMUM RMS VOLTAGE	V_{RMS}	140	280	420	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	200	400	600	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURREN T SEE FIG.1	I_O	8.0			A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SI NE-WAVE SUPERIMPOSED ON RATED LOAD PER LEG	I_{FSM}	125			A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150			℃
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 150			℃

ELECTRICAL CHARACTERISTICS (A_T T_A =25 C° UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MUR820	MUR840	MUR860	UNITS
MAXIMUM FORWARD VOLTAGE AT Io (NOTE 1)	V_F	0.975	1.3	1.5	V
MAXIMUM REVERSE CURRENT AT 25 ℃ (NOTE 1)	I_R	10			u A
MAXIMUM REVERSE CURRENT AT 125 ℃ (NOTE 1)	I_R	500			u A
MAXIMUM REVERSE RECOVERY TIME (I_F = 1.0 A, d I_R/dt = 50 A/μ s) (I_F =0.5A, I_R=1.0A, I_{RR} =0 25A)		35 25	60 50		nS

THERMAL CHARACTERISTICS (T_C =25 °C UNLESS NOTED)

PARAMETER	SYMBOL	MUR8xx	UNITS
TYPICAL THERMAL RESISTANCE JUNCTION TO CASE PER LEG	R_{0jc}	2.2	℃/W

NOTES : 1. PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE.

RATINGS AND CHARACTERISTIC CURVES OF MUR820 THRU MUR860

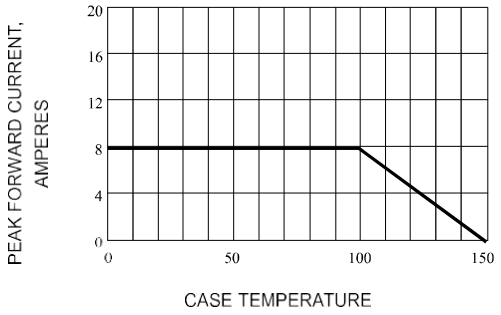


Fig. 1-TYPICAL FORWARD CURRENT DERATING CURVE

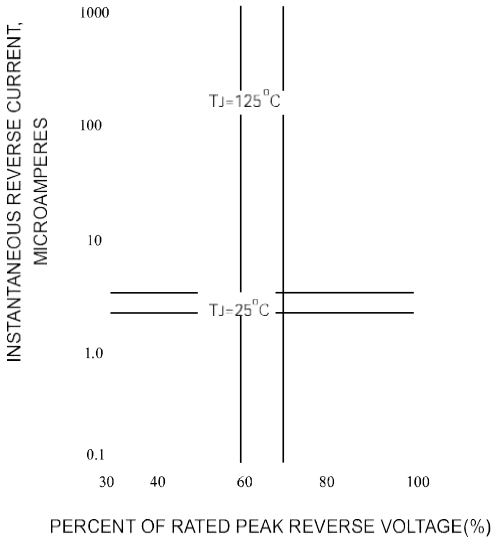


Fig. 2-TYPICAL REVERSE CHARACTERISTICS

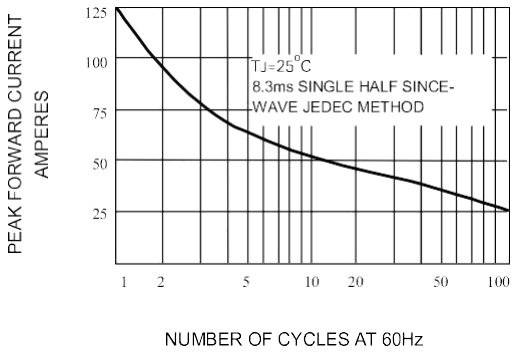


Fig. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

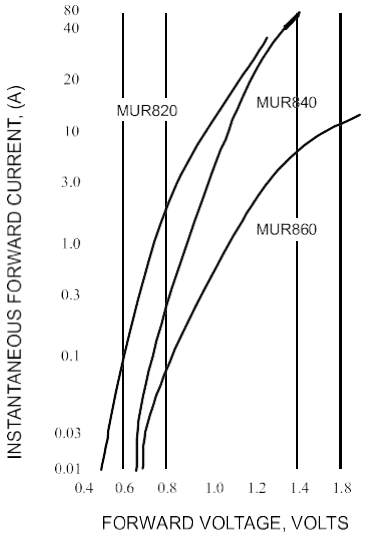


Fig. 4-TYPICAL FORWARD CURRENT