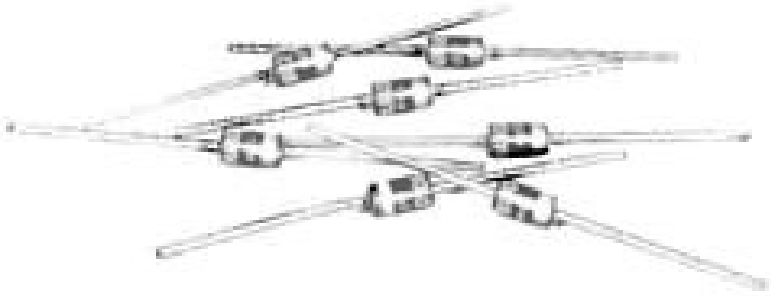
RAB HAB

3 AMPERE AXIAL LEAD RECTIFIERS

- PRV TO 1,000 VOLTS
- FAST RECOVERY (RAB SERIES)
- HIGH TEMPERATURE STABILITY
- HIGH SURGE CAPABILITY



PRV	50V	100V	200V	400V	600V	800V	1000V
HAB STANDARD RECOVERY	HAB005	HAB010	HAB020	HAB040	HAB060	HAB080	HAB100
RAB FAST RECOVERY	RAB005	RAB010	RAB020	RAB040	RAB060	RAB080	RAB100

ELECTRICAL CHARACTERISTICS at T_A=25°C Unless Otherwise Specified	HAB SERIES STANDARD RECOVERY
Max. DC Reverse Current @ PRV and 25°C, I_R	5 μA
Max. DC Reverse Current @ PRV and100°C, I_R	150 μA
Max.Forward Voltage Drop @3.0Amp, V_F	1.1 Volts
Ambient Operating Temperature Range,T_A	-55°C to +150°C
Storage Temperature Range,T_{STG}	-55°C to +150°C
Max. One-Half Cycle Surge Current, I_{FM}(Surge) @ 60H_Z	300 Amps

ELECTRICAL CHARACTERISTICS at T_A=25°C Unless Otherwise Specified	RAB SERIES FAST RECOVERY
Max. DC Reverse Current @ PRV and 25°C, I_R	5 μA
Max. DC Reverse Current @ PRV and100°C, I_R	250 μA
Max.Forward Voltage Drop @3.0Amp V_F	1.4 Volts
Max. Reverse Recovery Time, T_{rr} (Fig.4)	250 nanosec
Ambient Operating Temperature Range,T_A	-55°C to +150°C
Storage Temperature Range,T_{STG}	-55°C to +150°C
Max.One-Half Cycle Surge Current, I_{FM} (Surge) @ 60H_Z	240 Amps

EDI reserves the right to change these specifications at any time without notice.

FIG.1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

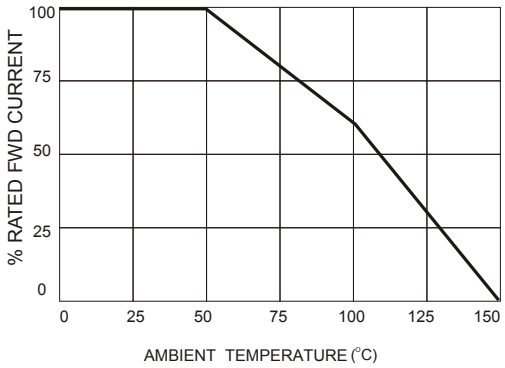


FIG.2

NON-REPETITIVE SURGE CURRENT

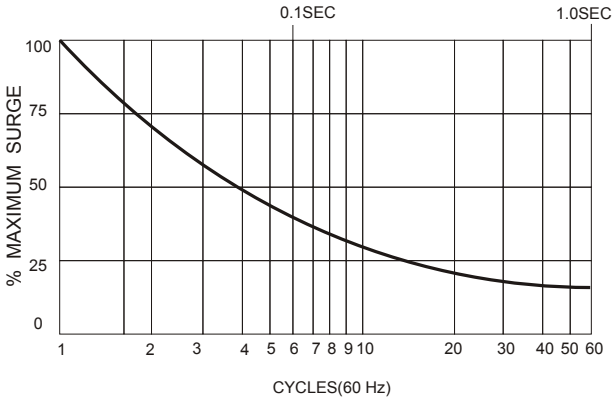
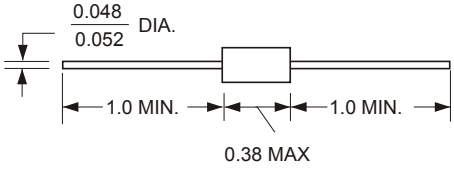
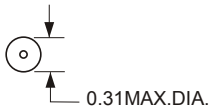


FIG.3





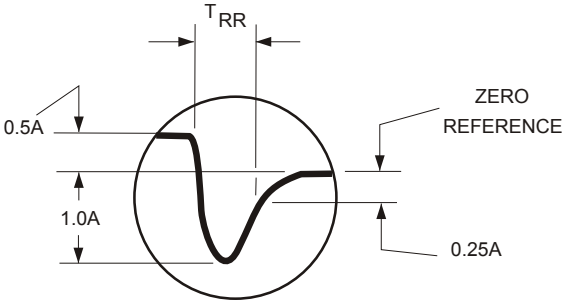
ALL DIMENSIONS IN INCHES

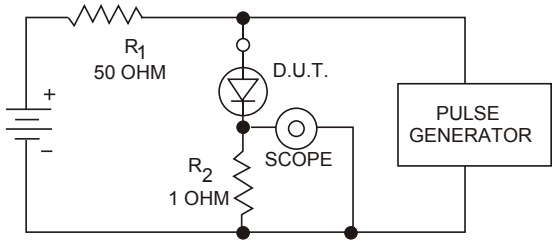
Maximum lead and terminal temperature for soldering,3/8 inch form case, 5 seconds at 250 °C

TEST CIRCUIT

FIG.4

TYPICAL REVERSE RECOVERY WAVEFORM





R_1, R_2 NON-INDUCTIVE RESISTORS
PULSE GENERATOR-HEWLETT PACKARD 214A OR EQUIV.
IKC REP.RATE, 10 μ SEC. PULSE WIDTH
ADJUST PULSE AMPLITUDE FOR PEAK I_R

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