EF to RR

HIGH VOLTAGE HIGH CURRENT MINIATURE RECTIFIERS

- SMALL SIZE MOLDED PACKAGES
- PRV 1,000 TO12,000 VOLTS
- FAST RECOVERY(R_ SERIES)
- AVALANCHE CHARACTERISTICS

EDI Type No.	Peak ReverseVoltage PRV(Volts)	Avg.Fwd.Current I_O at 50°C (mA) FIG.1	Max.Fwd Voltage Drop at 25°C and I_O V_F(Volts)	Max. Peak Surge Cureent, I_{FSM} (8.3 ms) (Amps) FIG.2	Repetitive Peak Forward Current I_{FRM} (Amps)
STANDARD RECOVERY					
EF100	1,000	600	2.0	35	8.0
EF150	1,500	600	2.0	35	8.0
EF200	2,000	600	2.0	35	8.0
EG200	2,000	400	3.0	30	6.0
EG250	2,500	400	3.0	30	6.0
EG300	3,000	400	3.0	30	6.0
EH300	3,000	300	4.0	25	5.0
EH350	3,500	300	4.0	25	5.0
EH400	4,000	300	4.0	25	5.0
EK450	4,500	200	6.0	15	3.0
EK500	5,000	200	6.0	15	3.0
EK600	6,000	200	6.0	15	3.0
EM700	7,000	175	8.0	12	2.5
EM800	8,000	175	8.0	12	2.5
EP900	9,000	150	10.0	10	2.0
EP1000	10,000	150	10.0	10	2.0
ER1100	11,000	100	12.0	8	1.5
ER1200	12,000	100	12.0	8	1.5
250 NANOSECOND RECOVERY(FIG.4)					
RF160B	1,600	500	2.6	25	8.0
RF200B	2,000	500	2.6	25	8.0
RG300B	3,000	350	3.9	20	6.0
RK300B	3,000	150	7.8	10	3.0
RK400B	4,000	150	7.8	10	3.0
RK500B	5,000	150	7.8	10	3.0
RK600B	6,000	150	7.8	10	3.0
RM700B	7,000	125	10.4	8	2.0
RM800B	8,000	125	10.4	8	2.0
RP900B	9,000	100	13.0	7	1.5
RP1000B	10,000	100	13.0	7	1.5
RR1100B	11,000	80	15.6	6	1.0
RR1200B	12,000	80	15.6	6	1.0
150 NANOSECOND RECOVERY(FIG.4)					
RF160A	1,600	500	2.6	25	8.0
RF200A	2,000	500	2.6	25	8.0
RG300A	3,000	350	3.9	20	6.0
RK300A	3,000	150	7.8	10	3.0
RK400A	4,000	150	7.8	10	3.0
RK500A	5,000	150	7.8	10	3.0
RK600A	6,000	150	7.8	10	3.0
RM800A	8,000	125	10.4	8	2.0
RP1000A	10,000	100	13.0	7	1.5
RR1200A	**12,000**	**80**	**15.6**	**6**	**1.0**

ELECTRICAL.CHARACTERISTICS(at T_A =25°C Unless Otherwise Specified)

Max. DC Reverse Current @ PRV and 25°C, I_R	2 μA
Max. DC Reverse Current @ PRV and100°C, I_R	50 μA
Ambient Operating Temperature Range,T_A	-55°C to +150 °C
Storage Temperature Range,T_{STG}	-55°C to +150 °C

FIG.1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

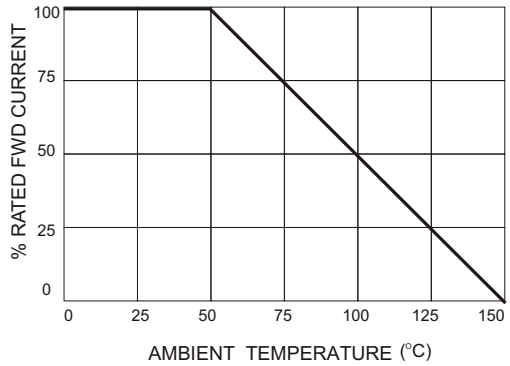


FIG.2

NON- REPETITIVE SURGE CURRENT

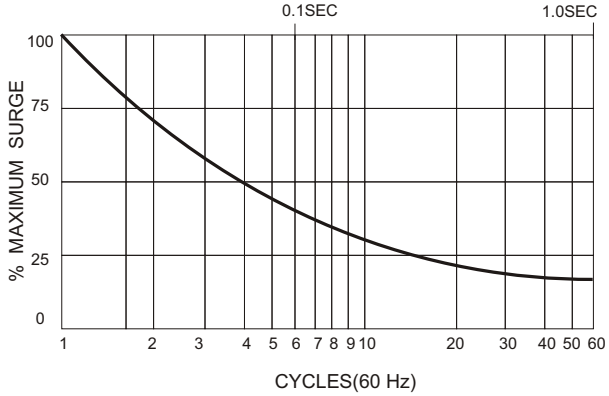
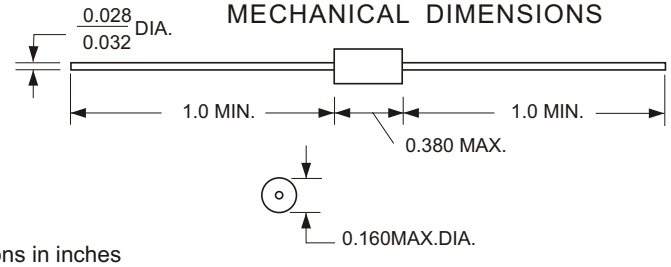


FIG.3

MECHANICAL DIMENSIONS



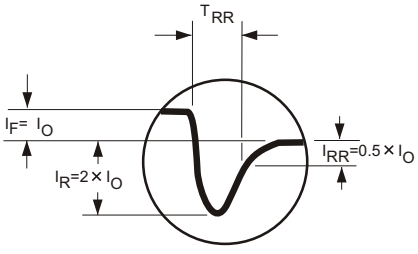
All dimensions in inches

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

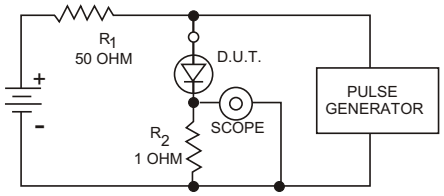
FIG.4

TEST CIRCUIT

TYPICAL REVERSE RECOVERY WAVEFORM



I_O=Average Forward Current at 50°C



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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