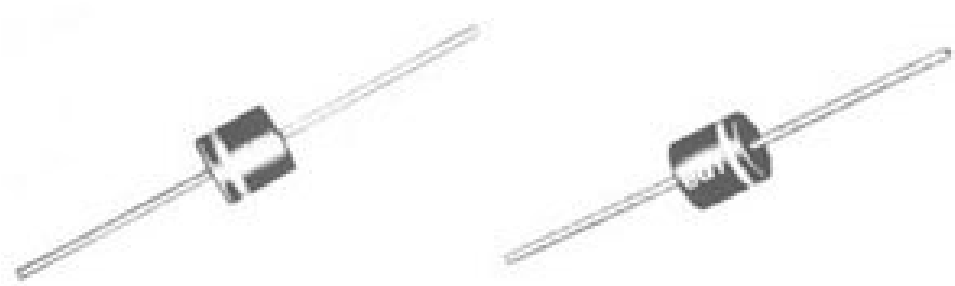
3RUS2 3RUS4

HIGH VOLTAGE, HIGH CURRENT ULTRA-FAST RECOVERY SILICON RECTIFIER DIODES



PRV	1200	1500	1800
TYPE	3RUS2120 3RUS4120	3RUS2150 3RUS4150	3RUS2180 3RUS4180

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

Type	3RUS2	3RUS4
Avg. Rectified Forward Current @ 50° Amb., I_o (Fig.1)	1.25 Amp	1.50 Amp
Avg.Output Current @ 80°C lead temperature Lead Temp-measured $\frac{3}{8}''$ from body of diode	2.0 Amp	2.5 Amp
Max. Reverse Current @ PRV and 25°C, I_R	5 μA	5 μA
Max. Reverse Current @ PRV and 100°C, I_R	50 μA Max	100 μA
Max.Forward Voltage Drop @ 25 °C ,2.0Amps , V_F	4V.	4V.
Max. Peak Surge Current,I_{FSM} (8.3 ms) (Fig.2)	100A	300A
Operating Temp Range	-65 °C to +150 °C	
Storage Temp Range	-65 °C to +150 °C	
Reverse Recovery Time, t_{rr}	50 nanosec	

NOTE:

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

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

FIG.1

OUTPUT CURRENT vs TEMPERATURE

RESISTIVE OR INDUCTIVE LOAD f=60Hz RECTIFIER
LEADS ATT ACHED TO HEA T SINKS AT LEAD LENGTH(L)

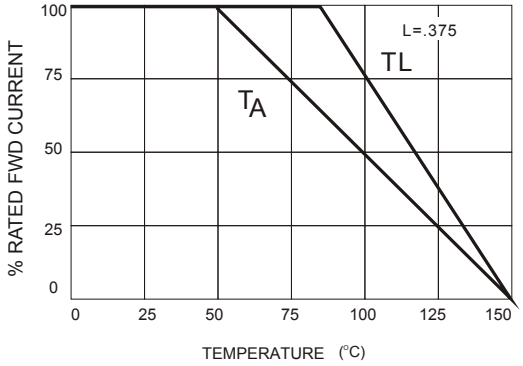


FIG.2

NON-REPETITIVE SURGE CURRENT

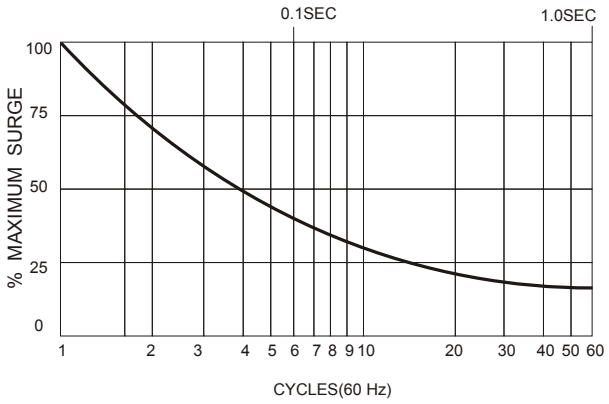
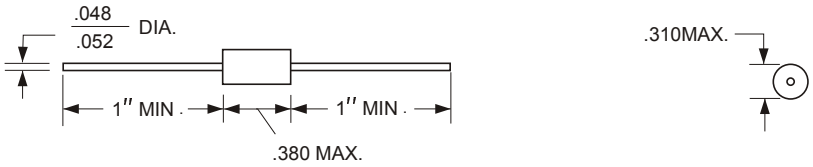


FIG.3

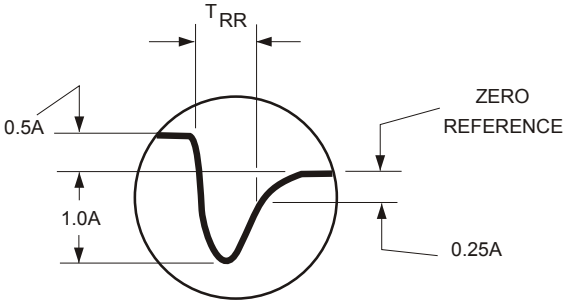
PACKAGE STYLE

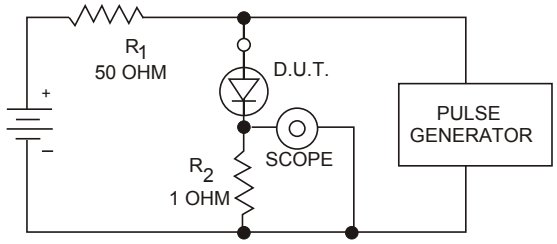


TEST CIRCUIT

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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