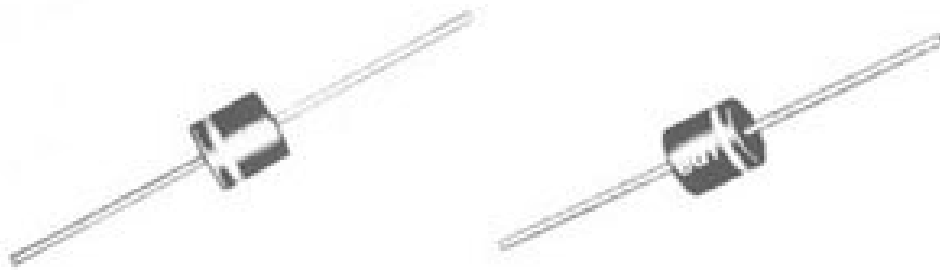




# 3RUS2 3RUS4

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<sub>A</sub>=25 °C Unless Otherwise Specified)

Type	3RUS2	3RUS4
Avg. Rectified Forward Current @ 50° Amb., I <sub>o</sub> (Fig.1)	1.25 Amp	1.50 Amp
Avg. Output Current @ 80°C lead temperature Lead Temp-measured 3/8" from body of diode	2.0 Amp	2.5 Amp
Max. Reverse Current @ PRV and 25°C, I <sub>R</sub>	5 μA	5 μA
Max. Reverse Current @ PRV and 100°C, I <sub>R</sub>	50 μA Max	100 μA
Max. Forward Voltage Drop @ 25 °C, 2.0Amps, V <sub>F</sub>	4V.	4V.
Max. Peak Surge Current, I <sub>FSM</sub> (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 <sub>rr</sub>	50 nanosec	

### NOTE:

Maximum 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.

# 3RUS2 3RUS4

FIG.1

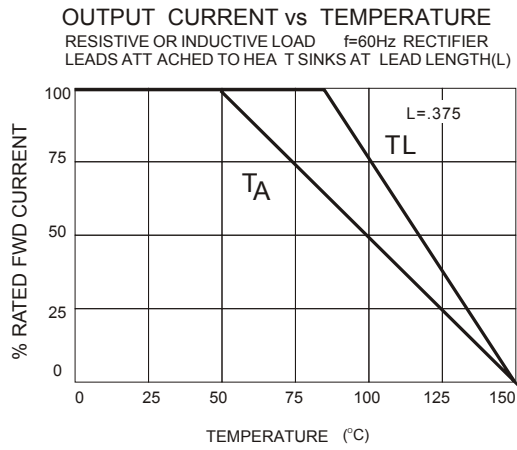


FIG.2

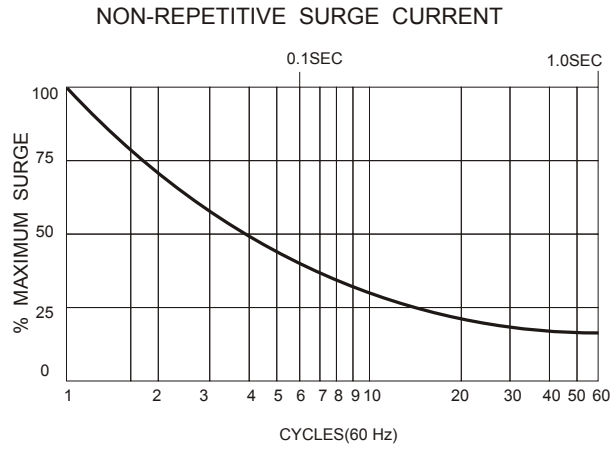
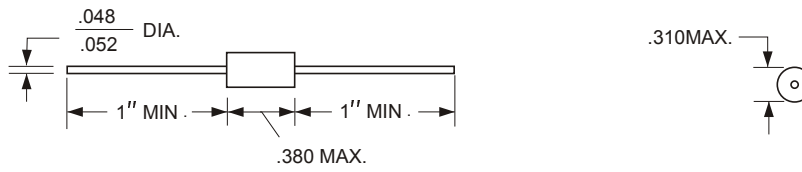


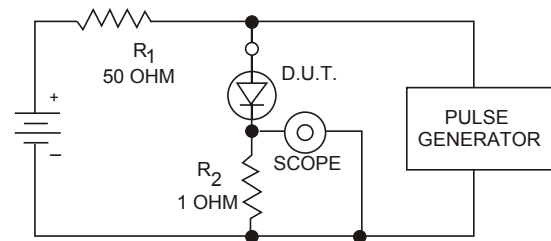
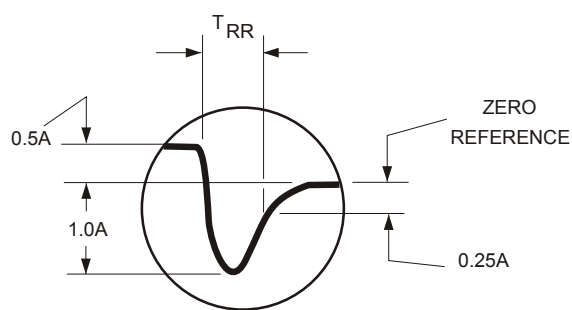
FIG.3  
PACKAGE STYLE



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,  $10 \mu$  SEC. PULSE WIDTH  
ADJUST PULSE AMPLITUDE FOR PEAK  $I_R$

**ELECTRONIC DEVICES, INC.** DESIGNERS AND MANUFACTURERS OF SOLID STATE DEVICES SINCE 1951.

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