DR 300 DR1500

FAST RECOVERY HIGH VOLTAGE 25mA MINIATURE SILICON RECTIFIERS

- SMALL SIZE MOLDED PACKAGE
- PRV 3,000 TO 15,000 VOLTS
- AVALANCHE CHARACTERISTICS
- LOW LEAKAGE



EDI Type	PRV Volts	COLOR CODE DOT
DR300	3,000	Orange
DR500	5,000	Green
DR800	8,000	Gray
DR1000	10,000	Red
DR1200	12,000	Blank
DR1500	15,000	White

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

Average Rectified Forward Current @ 50 °C, I_O (Fig.1)	25 mA
Max. Peak Surge Current, I_{FSM} (8.3ms) (Fig.2)	3 Amp
Max. Reverse Recovery, T_{RR} (Fig.4)	100nanosec
Max. Forward Voltage Drop @ 25 mA, V_F	26Volts
Max. DC Reverse Current @ PRV and 25°C, I_R	1 μA
Max. DC Reverse Current @ PRV and 100°C, I_R	25 μA
Ambient Operating Temperature Range, T_A	-55°C to +125 °C
Storage Temperature Range, T_{STG}	-55°C to +150 °C

NOTES:

1. It is recommended that a proper heat sink be used on the terminals of this device between the body and soldering point to prevent damage from excess heat.

2. If operated over 10,000v/inch in length, devices should be immersed in oil or re - encapsulated.

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

FIG.1

OUTPUT CURRENT vs AMBIENT TEMPERATURE

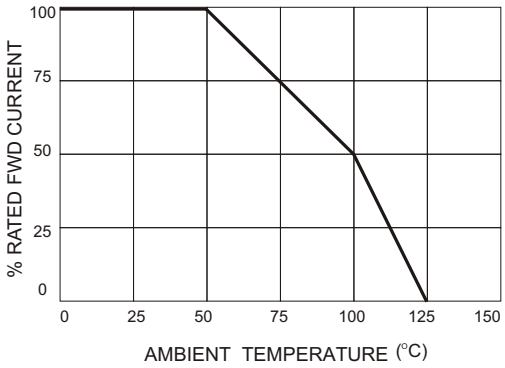


FIG.2

NON- REPETITIVE SURGE CURRENT

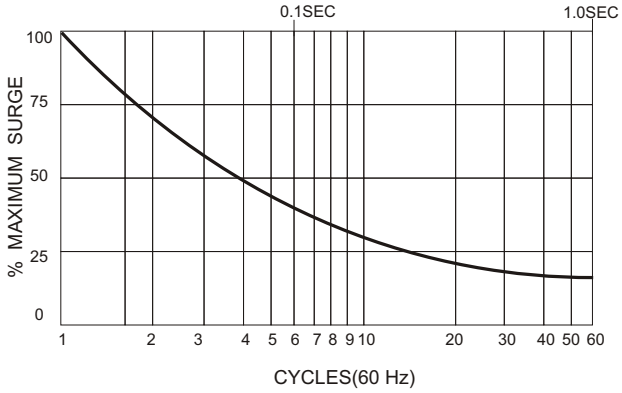
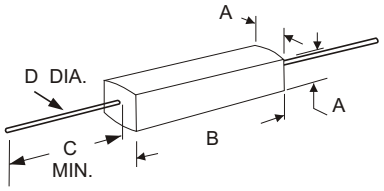


FIG.3

MECHANICAL

Leads-solid silver
Polarity - Cathode dot
See Color Code Chart



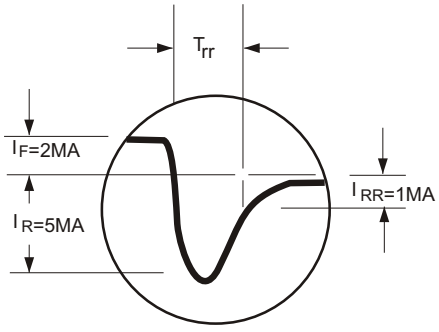
DIMENSIONS

	INCHES		MILLMETERS	
	Min.	Max.	Min.	Max.
A	.095	.125	2.41	3.17
B	.380	.420	9.65	10.66
C	.300	-	7.60	-
D	.011	.016	0.27	0.40

FIG.4

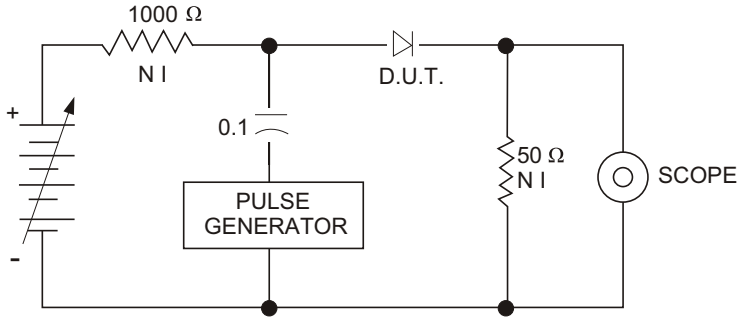
REVERSE RECOVERY TEST METHOD

RECOVERY WAVE FORM



WAVE FORMS

RECOVERY WA VE FORM



CIRCUIT

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