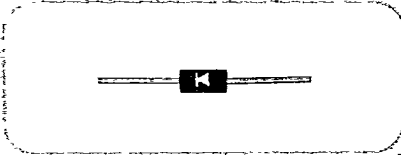




MEDIUM RECOVERY HIGH VOLTAGE SILICON DIODES



1500 TO 10000V
100 TO 250 MA
3 U SEC REVERSE RECOVERY
LOW REVERSE LEAKAGE

PART NUMBER	PEAK INVERSE VOLTAGE PIV	AVERAGE RECTIFIED CURRENT I_O		MAXIMUM REVERSE CURRENT @ PIV I_R		MAXIMUM FORWARD VOLTAGE V_F		MAX SURGE CURRENT 1 CYCLE I_{FS}	MAX SURGE CURRENT REC I_{FSR}	MAX REVERSE RECOVERY TIME T_{RR}^1	TYPICAL THERMAL IMPEDANCE θ_{J-L}^2	
		55°C	100°C	25°C	100°C	25°C		25°C	25°C	25°C	°C/W	
	VOLTS	MA	MA	μA	μA	VOLTS	AMPS	AMPS	AMPS	μSEC	D=0	D=25
X15S	1500	250	125	1.0	20	6.0	.1	15	3.0	3.0	10	33
X20S	2000	250	125	1.0	20	6.0	.1	15	3.0	3.0	10	33
X25S	2500	250	125	1.0	20	6.0	.1	15	3.0	3.0	10	33
X30S	3000	150	75	1.0	20	8.0	.1	10	2.0	3.0	10	33
X40S	4000	150	75	1.0	20	8.0	.1	10	2.0	3.0	10	33
X50S	5000	150	75	1.0	20	8.0	.1	10	2.0	3.0	10	33
X60S	6000	100	50	1.0	20	13.0	.1	5	1.0	3.0	10	33
X80S	8000	100	50	1.0	20	13.0	.1	5	1.0	3.0	10	33
X100S	10000	100	50	1.0	20	13.0	.1	5	1.0	3.0	10	33

NOTES:

1. I_F = 50 MA
 I_R = 100 MA
 I_{RR} = 25 MA

2. See reverse side of data sheet for θ_{J-L} information.

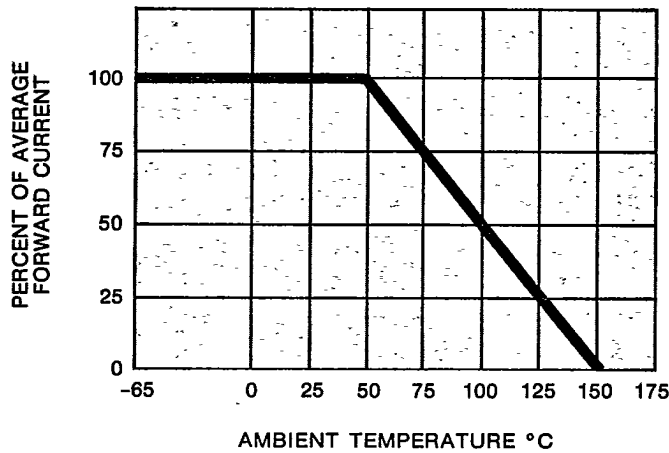
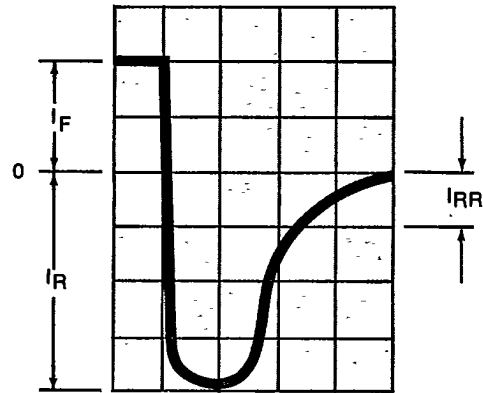
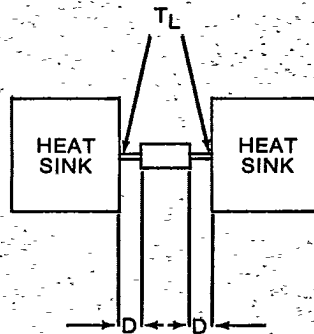
Operating Temperature -65°C to +150°C

Storage Temperature -65°C to +175°C

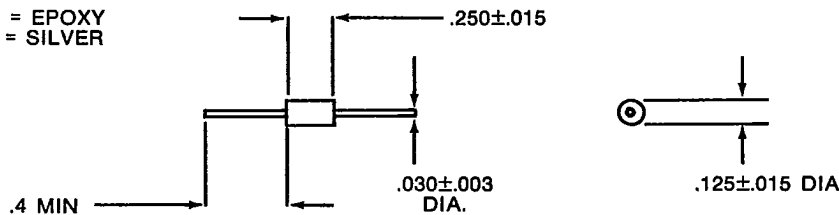
Data subject to change without notice.

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APPLICATION INFORMATION

MAXIMUM FORWARD CURRENT
VS.
TEMPERATUREREVERSE RECOVERY
WAVE FORMTHERMAL IMPEDANCE
 θ_{J-L} INFORMATION

HEAT SINKS ARE INFINITE

 T_L = LEAD TEMP. ADJACENT TO
HEAT SINK T_J = TEMP. OF CENTER JUNCTION.
EXPOSED PORTION OF LEADS
SHALL BE FREE OF PAINT,
GREASE, OR COATINGS OF
ANY KIND.BODY MATERIAL = EPOXY
LEAD MATERIAL = SILVER**vmi****VOLTAGE MULTIPLIERS, INC.**

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