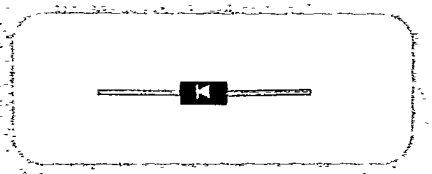
VMI VOLTAGE MULTIPLIERS, INC.

FAST RECOVERY
HIGH VOLTAGE SILICON DIODES



1500 TO 10000V
100 TO 250 MA
200 N 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[2] θ_{J-L}	
		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	N SEC	D=0	D=.25
X15F	1500	250	125	1.0	20	6.0	.1	15	3.0	200	10	33
X20F	2000	250	125	1.0	20	6.0	.1	15	3.0	200	10	33
X25F	2500	250	125	1.0	20	6.0	.1	15	3.0	200	10	33
X30F	3000	150	75	1.0	20	8.0	.1	10	2.0	200	10	33
X40F	4000	150	75	1.0	20	8.0	.1	10	2.0	200	10	33
X50F	5000	150	75	1.0	20	8.0	.1	10	2.0	200	10	33
X60F	6000	100	50	1.0	20	13.0	.1	5	1.0	200	10	33
X80F	8000	100	50	1.0	20	13.0	.1	5	1.0	200	10	33
X100F	10000	100	50	1.0	20	13.0	.1	5	1.0	200	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.

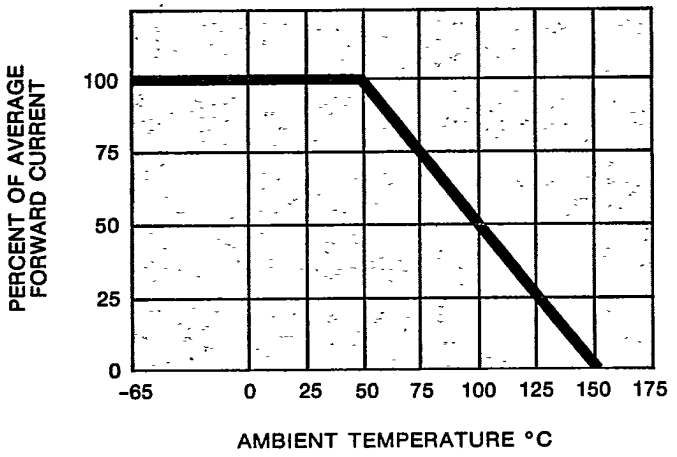
Operating Temperature -65°C to +150°C
Storage Temperature -65°C to +175°C
Data subject to change without notice.

8711 W. Roosevelt Ave. ○ Visalia, CA 93291 ○ (209) 651-1402 ○ Telex: 176559

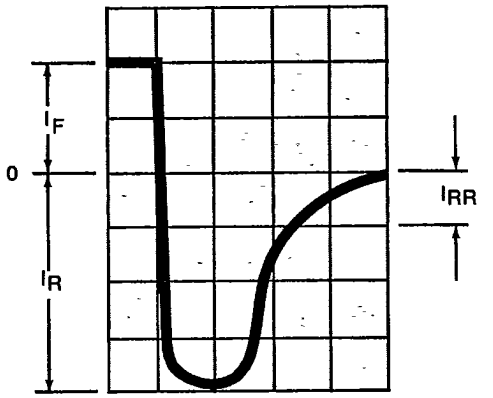
105-10-82

APPLICATION INFORMATION

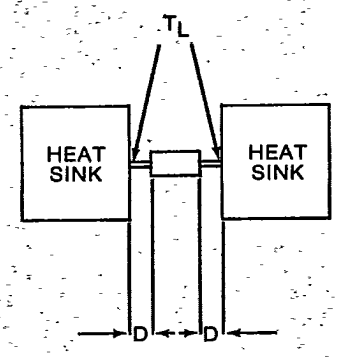
MAXIMUM FORWARD CURRENT VS. TEMPERATURE



REVERSE RECOVERY WAVE FORM



THERMAL IMPEDANCE θ_{J-L} INFORMATION

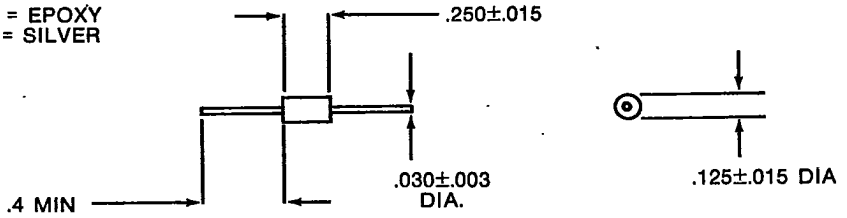


HEAT SINKS ARE INFINITE

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



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