

SILICON RECTIFIERS

150 Ampere Silicon Power Diodes

FEATURES

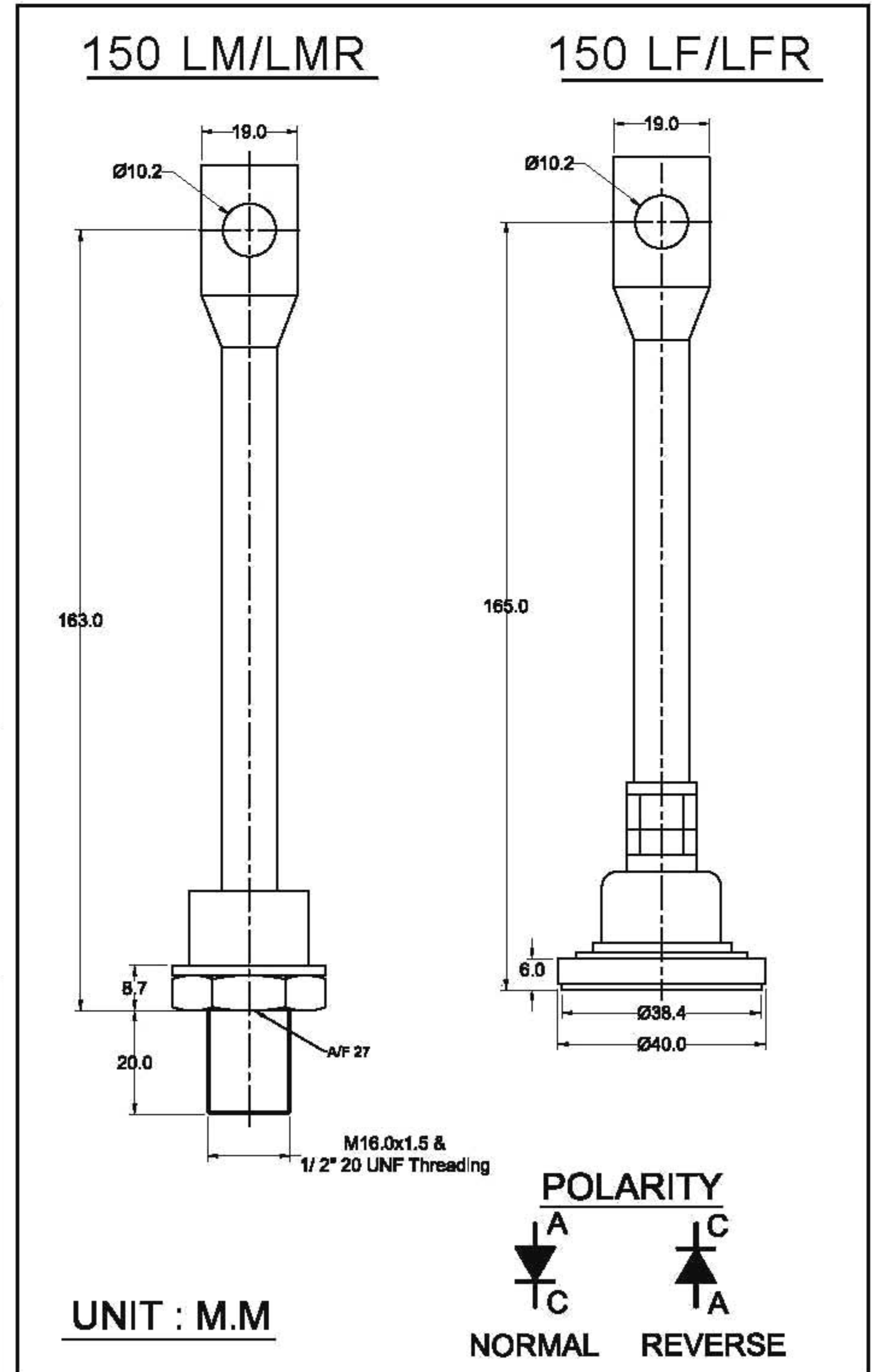
- ❖ Diffused series.
- ❖ Available in normal & reverse polarity.
- ❖ Device conforms to IS 3700 (III) & IS 4400 (III).
- ❖ Device outline conforms to IS 5000 (Do. 6).

ELECTRICAL SPECIFICATIONS

$I_{F(AV)}$	Maximum average forward current $T_c = 130^\circ\text{C}$	150 A
V_{FM}	Maximum peak forward voltage drop @ Rated $I_{F(peak)}$	1.4 V
I_{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec.	3570 A
I_{FRM}	Maximum repetitive peak forward current	750 A
I^2t	Max. I^2t rating (non-rep.) 10 msec.	64000 A ² Sec

THERMAL MECHANICAL SPECIFICATIONS

θ_{J-C}	Maximum thermal resistance junction to case	0.25 ^o C/W
θ_{C-H}	Contact thermal resistance	150LM/LMR 0.1 ^o C/W 150LF/LFR 0.07 ^o C/W
T_J	Operating junction temp.	-40 ^o C to 200 ^o C
T_{stg}	Storage temperature	-40 ^o C to 200 ^o C
	Mounting torque (Non-lubricated threads)	2.0 M-Kg min. 3.0 M-Kg max.
W	Approx. weight	150 gms.



ELECTRICAL RATINGS

TYPE NUMBER	150 LM/LMR 150 LF/LFR	10	20	40	60	80	100
V_{RRM}	Max. repetitive peak reverse voltage (V)	100	200	400	600	800	1000
V_{RSM}	Max. non-repetitive peak reverse voltage (V)	150	300	500	700	900	1100
$V_{R(RMS)}$	Max. R.M.S. reverse voltage (V)	70	140	280	420	560	700
V_R	Max. D.C. Blocking voltage (V)	100	200	400	600	800	1000
	Recommended R.M.S. working voltage (V)	40	80	160	240	320	400
I_{RM}	Max. Peak reverse leakage current @ V_{RRM}, T_c (mA)	15	15	15	12	9	7

SILICON RECTIFIER

ORDER INFORMATION TABLE

150 L	M/F	R	40
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① ② ③ ④

- ① - 150 L - Essential Part no.
- ② - None - Stud with 1/2" UNF.2A Threading
M - Stud with M16 x 1.5P Metric Threading
F - Round flat base
K - 3/8" - 24UNF-2A
- ③ - None - Normal polarity
R - Reverse polarity
- ④ - Voltage Rating (See table)

SILICON RECTIFIERS

150 LM / LMR & 150 LF / LFR SERIES

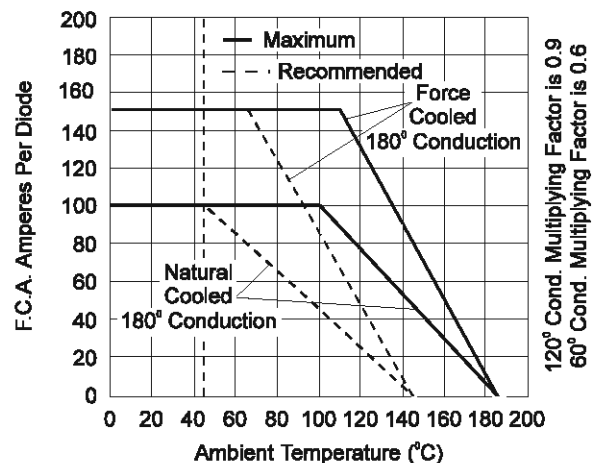
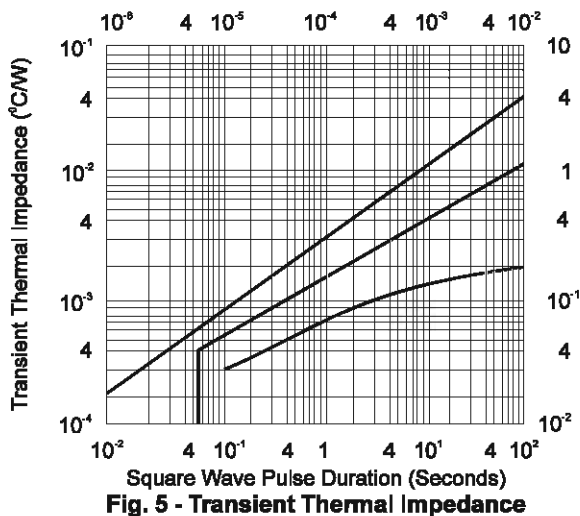
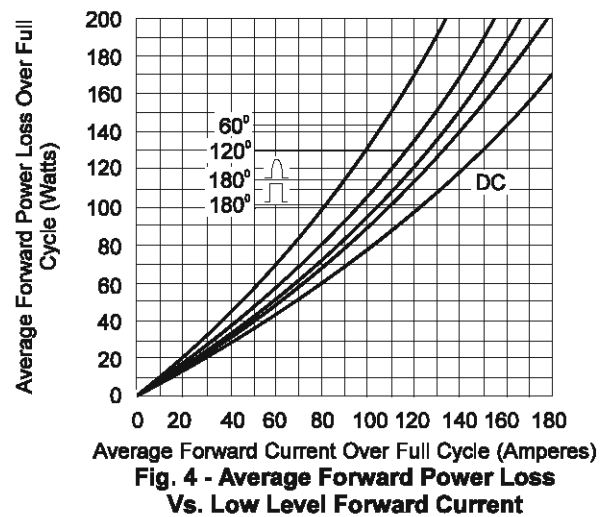
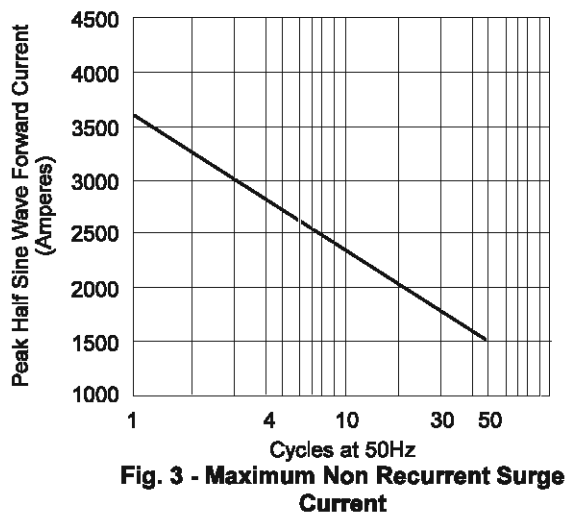
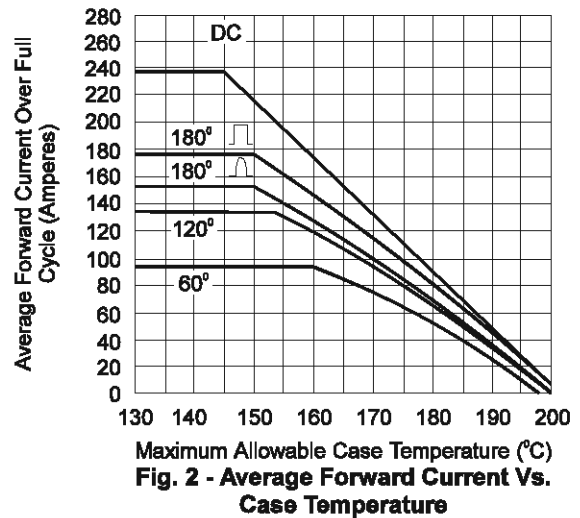
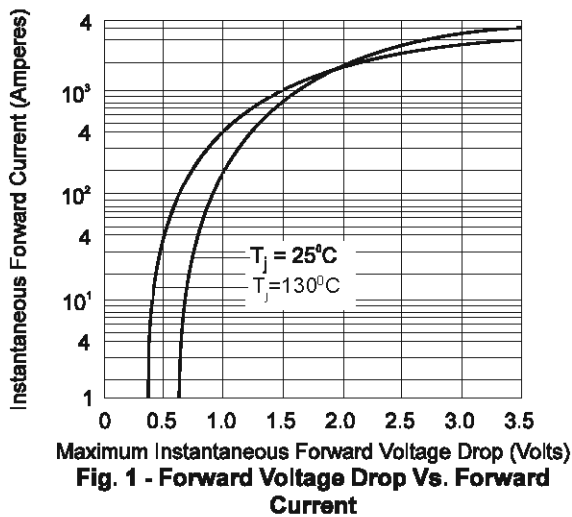


Fig. 6 - Diode 150 L/MR Mounted on Heat Sink Type K5 with θ_{HA-NC} 0.55°C/W, FC 0.13°C/W

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