

Ruttonsha International Rectifier Ltd. SILICON RECTIFIERS

200 Ampere Silicon Power Diodes

FEATURES

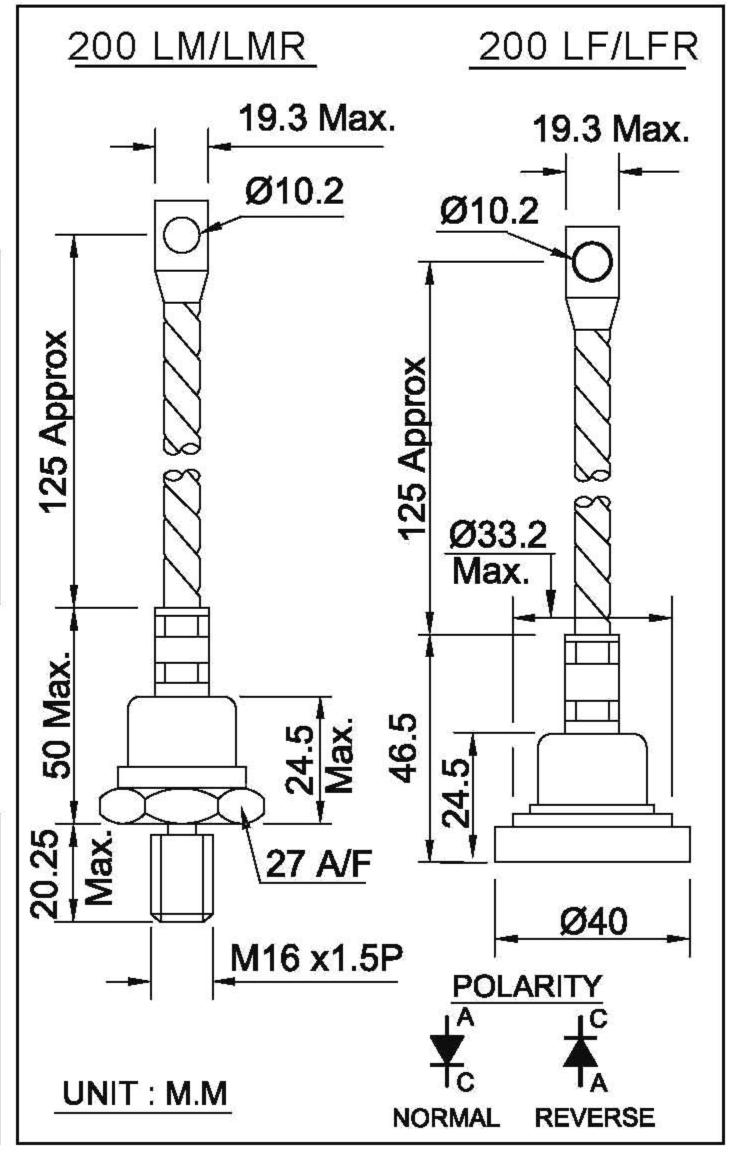
- Diffused series.
- Available in normal & reverse polarity.
- Device conforms to IS 3700 (III) & IS 4400 (III).
- Device outline conforms to IS 5000 (Do. 6).

ELECTRICAL SPECIFICATIONS

I _{F(AV)}	Maximum average forward current T _c = 125°C	200 A
V _{FM}	Maximum peak forward voltage drop @ Rated I _{F(peak)}	1.55 V
l _{FSM}	Maximum peak one cycle (non-rep.) surge current 10 msec.	3650 A
I _{F(RMS)}	Maximum R.M.S forward current	314 A
l²t	Max. I ² t rating (non-rep.) 10 msec.	66600 A ² Sec

THERMAL MECHANICAL SPECIFICATIONS

θ _{J-C}	Maximum thermal resistance junction to case	0.25° C/W 150LM/LMR 0.1° C/W 150LF/LFR 0.07° C/W	
Ө _{С-Н}	Contact thermal resistance		
TJ	Operating junction temp.	-40°C to 180°C	
T _{stg}	Storage temperature	-40°C to 180°C	
0	Mounting torque (Non-lubricated threads)	2.0 M-Kg min. 3.0 M-Kg max.	
W	Approx. weight	150 gms.	

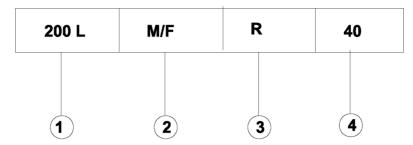


ELECTRICAL RATINGS

TYPE	NUMBER 200 LM/LMR 200 LF/LFR	20	40	60
V_{RRM}	Max. repetitive peak reverse voltage (V)	200	400	600
V_{RSM}	Max. non-repetitive peak reverse voltage (V)	300	500	700
$V_{_{R(RMS)}}$	Max. R.M.S. reverse voltage (V	140	280	420
V _R	Max. D.C. Blocking voltage (V)	200	400	600
	Recommended R.M.S. working voltage (V)	80	160	240
I _{RM}	Max. Peak reverse leakage current @ V _{RRM} ,T _C (mA)	15	15	15

SILICON RECTIFIER

ORDER INFORMATION TABLE



- 1 200 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
- None Normal polarityR Reverse polarity
- 4 Voltage Rating (See table)

SILICON RECTIFIER

200LM/LMR & 200LF/LFR SERIES

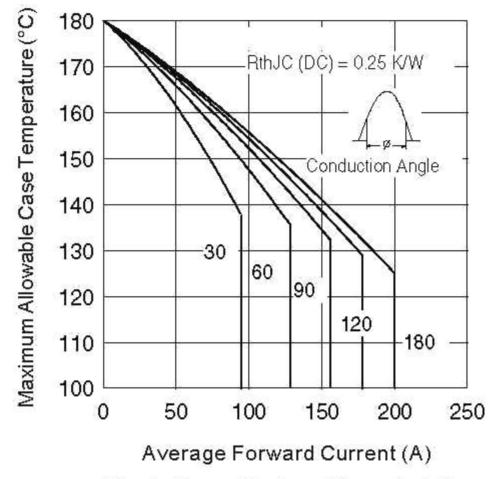


Fig. 1 - Current Ratings Characteristics

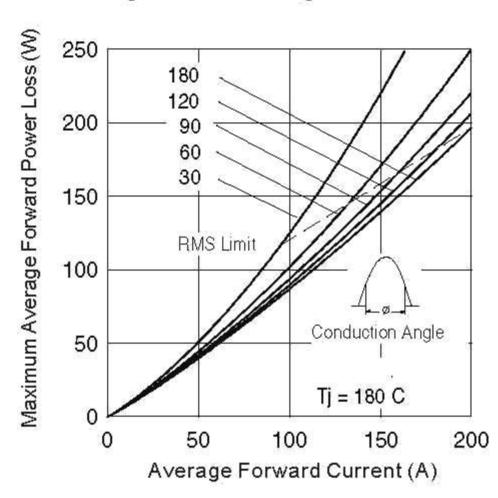


Fig. 3 - Forward Power Loss Characteristics

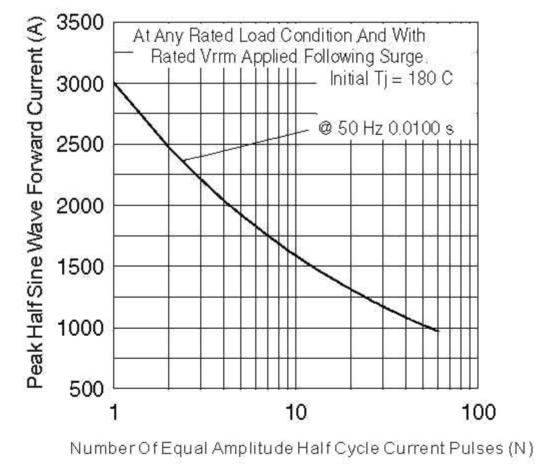


Fig. 5 - Maximum Non-Repetitive Surge Current

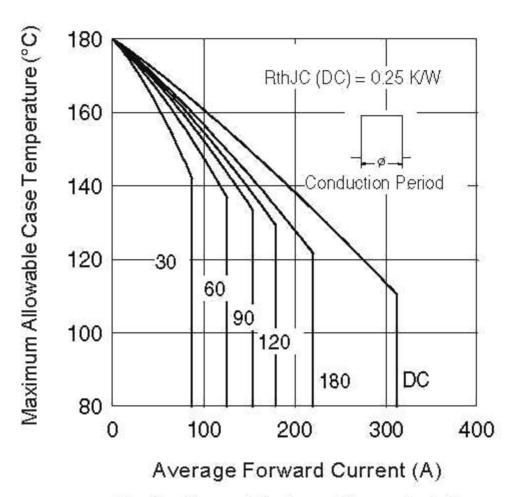


Fig. 2 - Current Ratings Characteristics

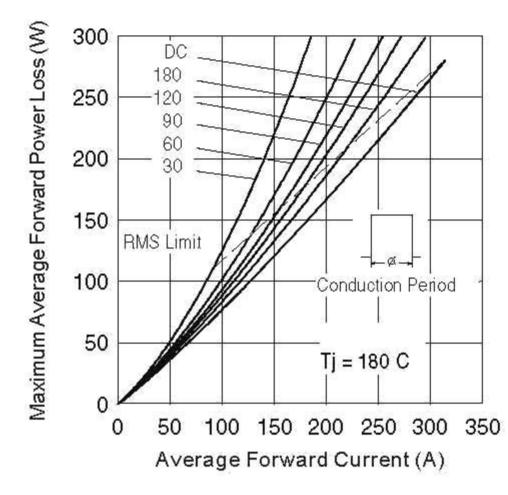


Fig. 4 - Forward Power Loss Characteristics

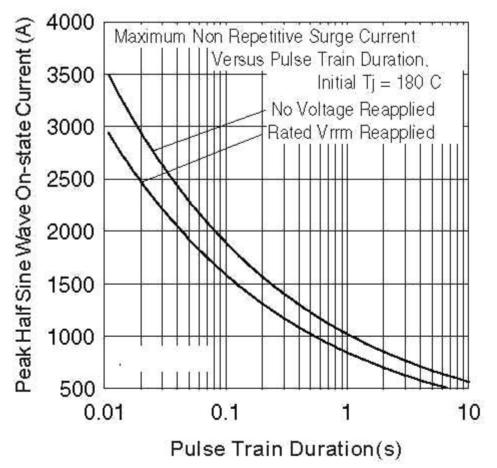


Fig. 6 - Maximum Non-Repetitive Surge Current

SILICON RECTIFIER

200LM/LMR & 200LF/LFR SERIES

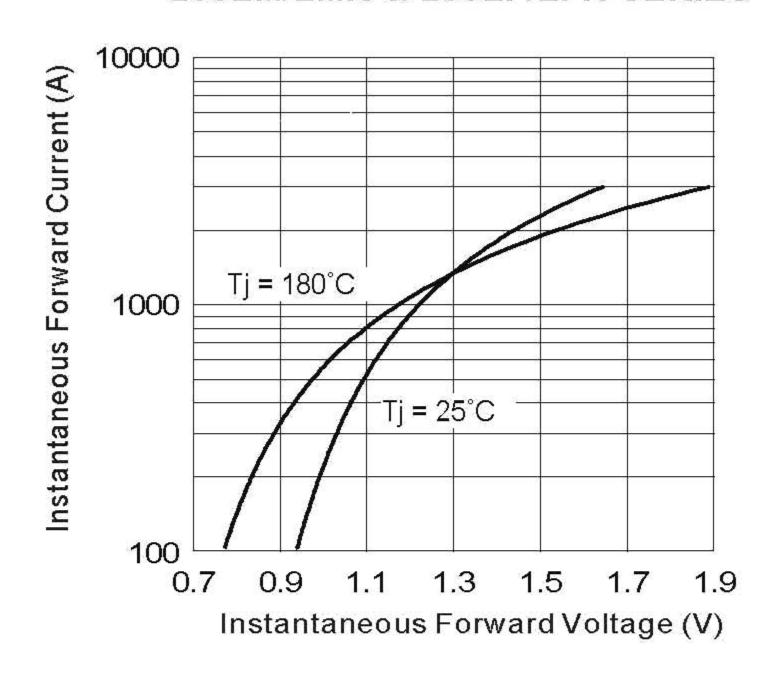


Fig. 7 - Forward Voltage Drop Characteristics

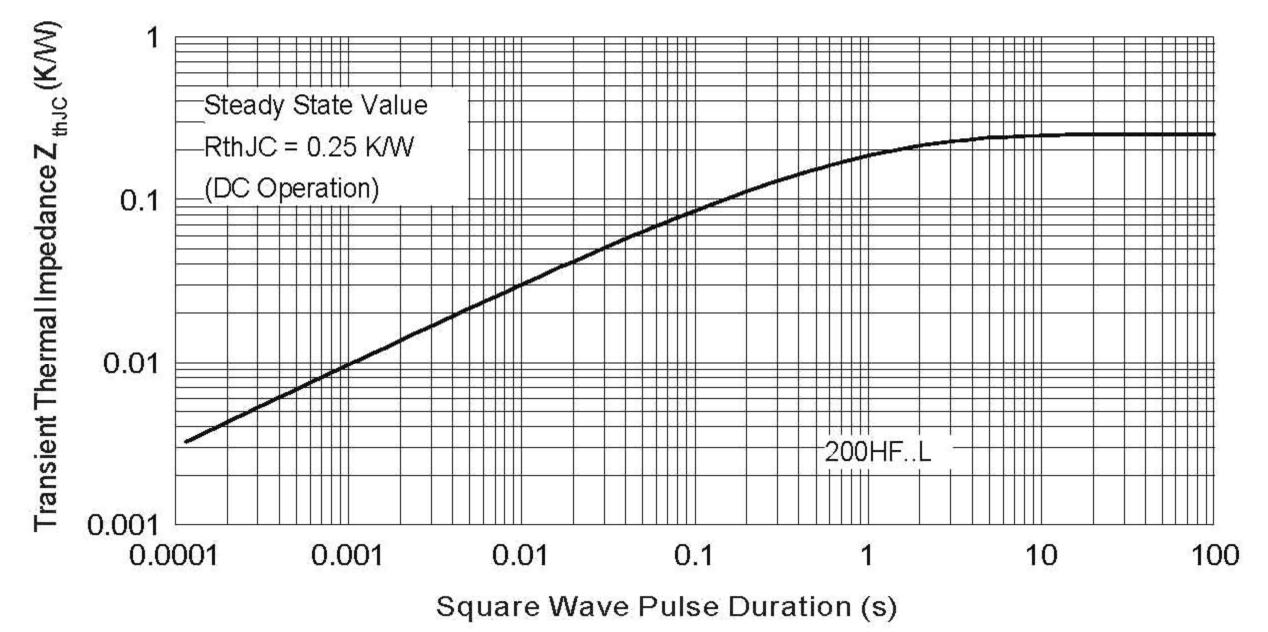


Fig. 8 - Thermal Impedance Z_{thJC} Characteristic