Rectifier Diode
DS1107

Technical Data

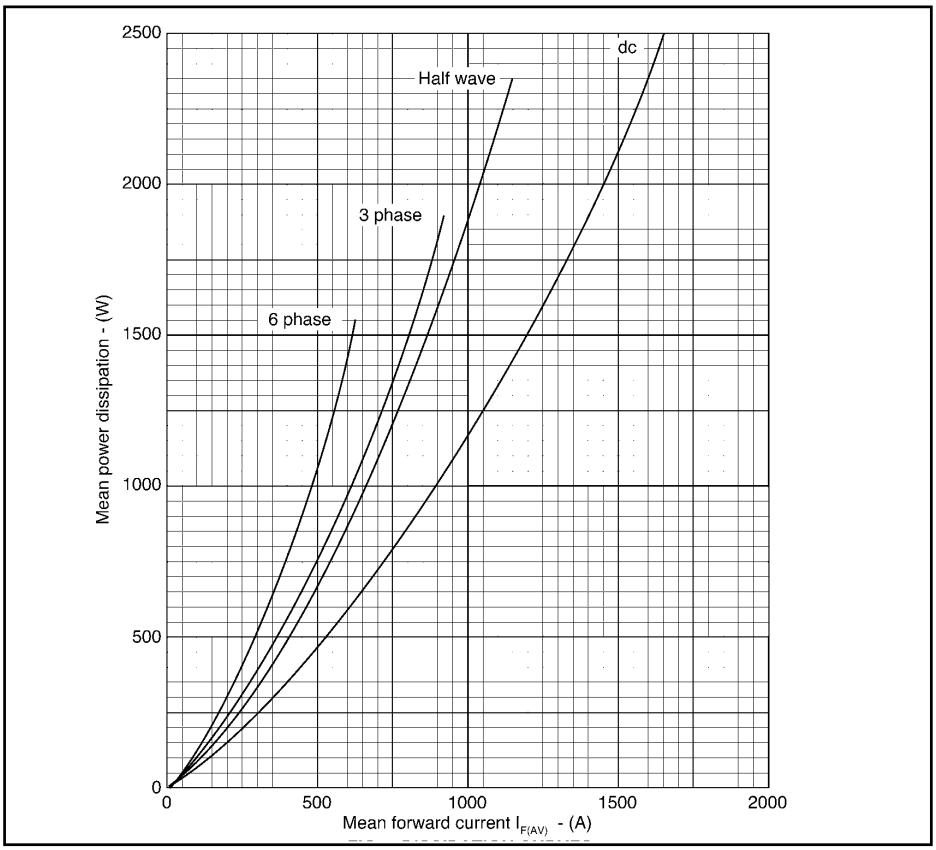
Typical applications :All purpose high power rectifier diodes, Non-controllable and half controlled rectifiers . Free-wheeling diodes & traction.

Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
DS1107/24	2400	2500
DS1107/30	3000	3100
DS1107/32	3200	3300
DS1107/36	3600	3700
DS1107/43	4300	4400

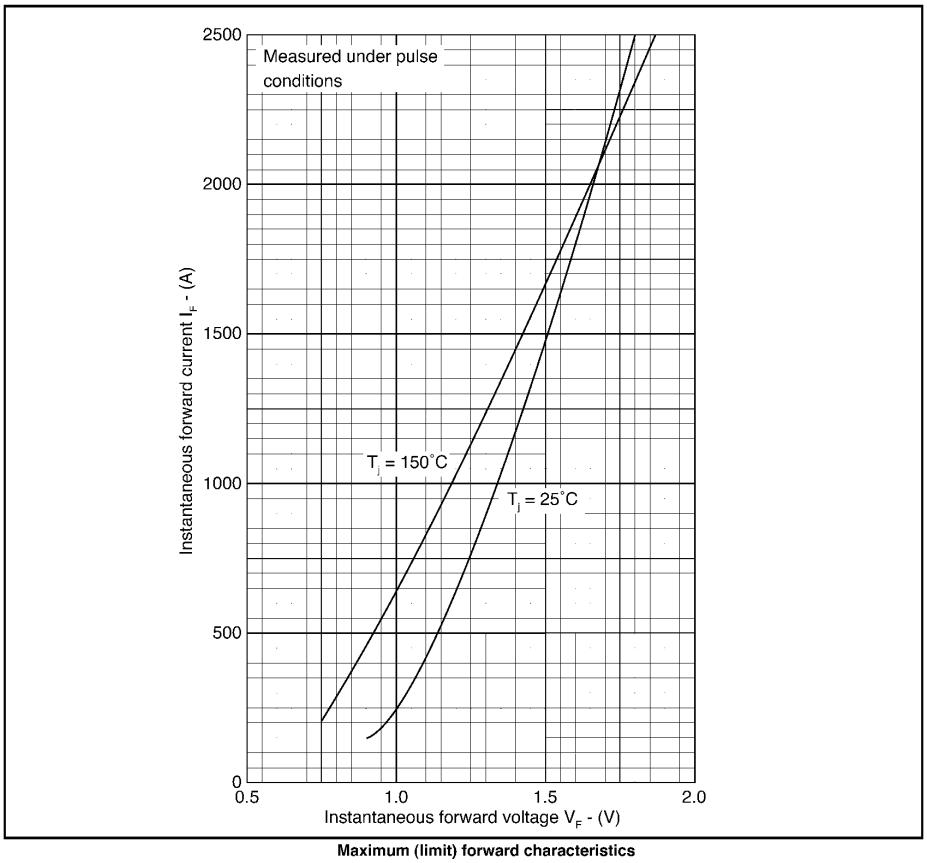
Features

- Reverse voltage upto 4300V
- Double side cooling.
- High surge capability.

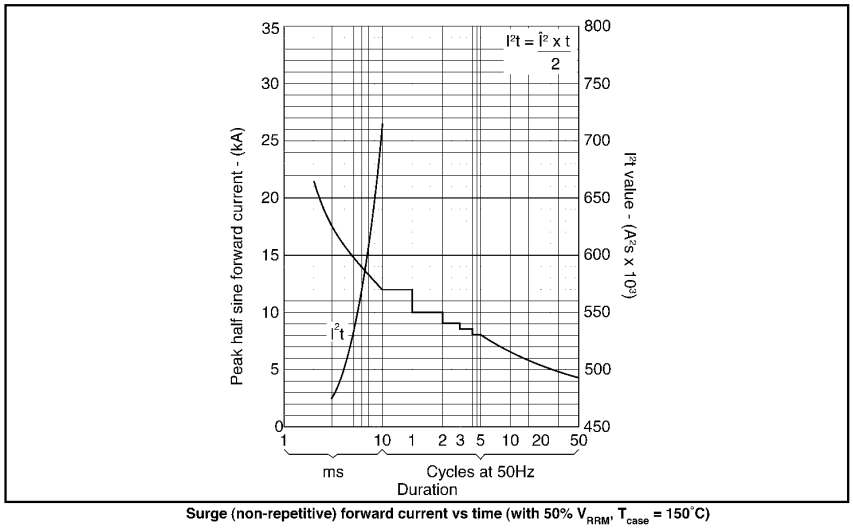
Symbol	Conditions	Values
$I_{F(AV)}$	Sin 180 ;Tcase = 100 ˚C	870 A
I_{FSM}	Tvj = 150 ˚C ; 10 ms, V_{RRM} = 50% Tvj = 150 ˚C ; 10 ms, V_{RRM} = 0	12 KA 15 KA
I^2t	Tvj = 150 ˚C, V_{RRM} = 50% Tvj = 150 ˚C, V_{RRM} = 0	720000 A^2s 1125000 A^2s
I_{RRM}	Tvj = 150 ˚C	50 mA max
V_F V_0 R_0	Tvj = 25 ˚C ; I_F = 1800 A Tvj = 150 ˚C Tvj = 150 ˚C	1.60 V max 0.75 V 0.44 mΩ
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}		0.032 ˚C/W 0.008 ˚C/W 150 ˚C -40.....+ 175 ˚C
Mounting Force	SI units	12.5-15 KN
Weight	Approx	310 g
Case outline		G



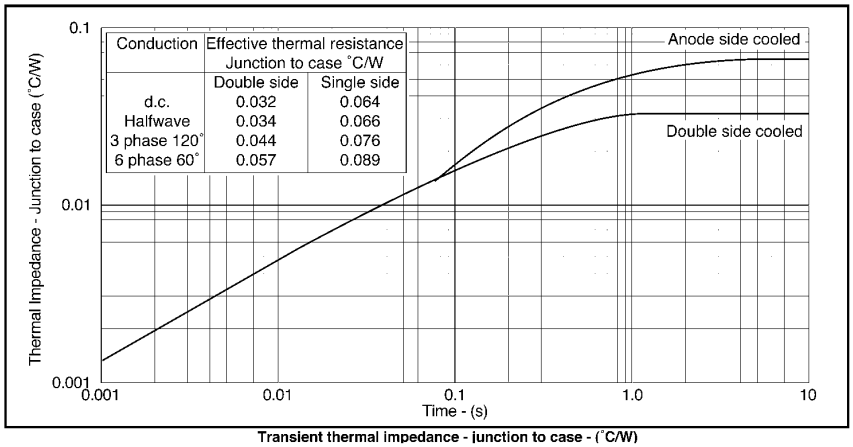
Dissipation curves



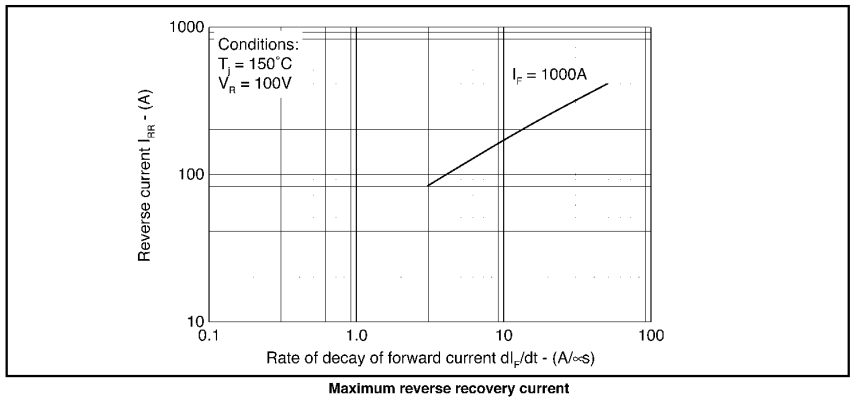
Maximum (limit) forward characteristics



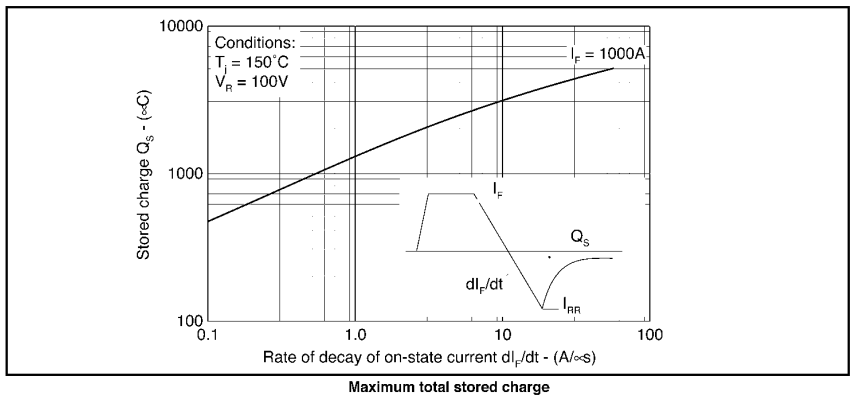
Surge (non-repetitive) forward current vs time (with 50% V_{RRM}, T_{case} = 150°C)



Transient thermal impedance - junction to case - (°C/W)



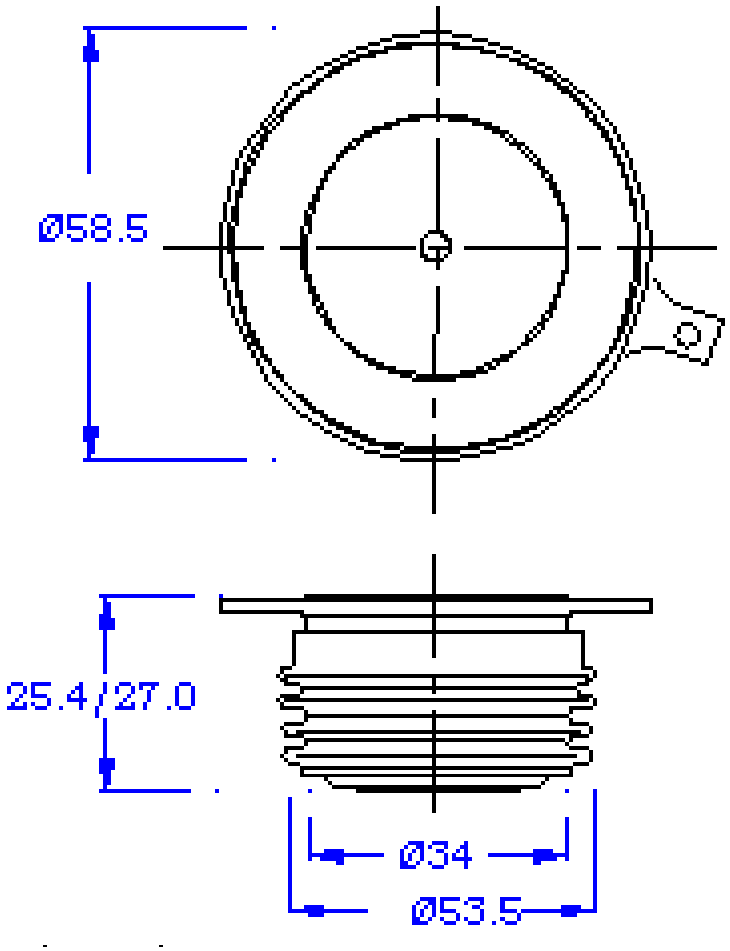
Maximum reverse recovery current



Maximum total stored charge

PACAKAGE DEATILS

DO NOT SCALE



Nominal Weight : 310g
Clamping Force : 12.5-15KN

All Dimensions in mm

Package Outline : G