

# Rectifier Diode

## DS1104



### Technical Data

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

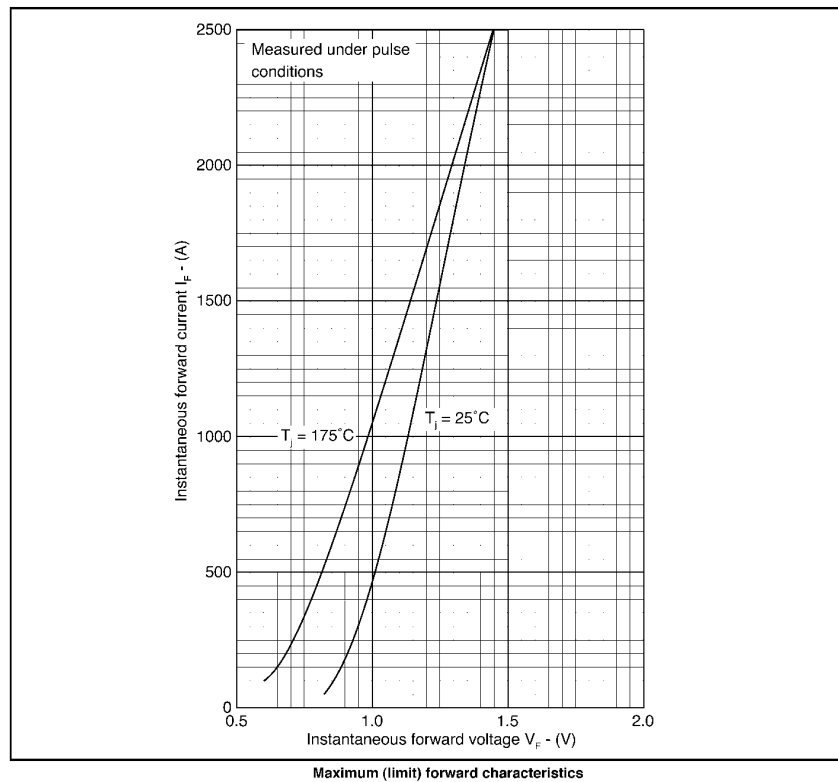
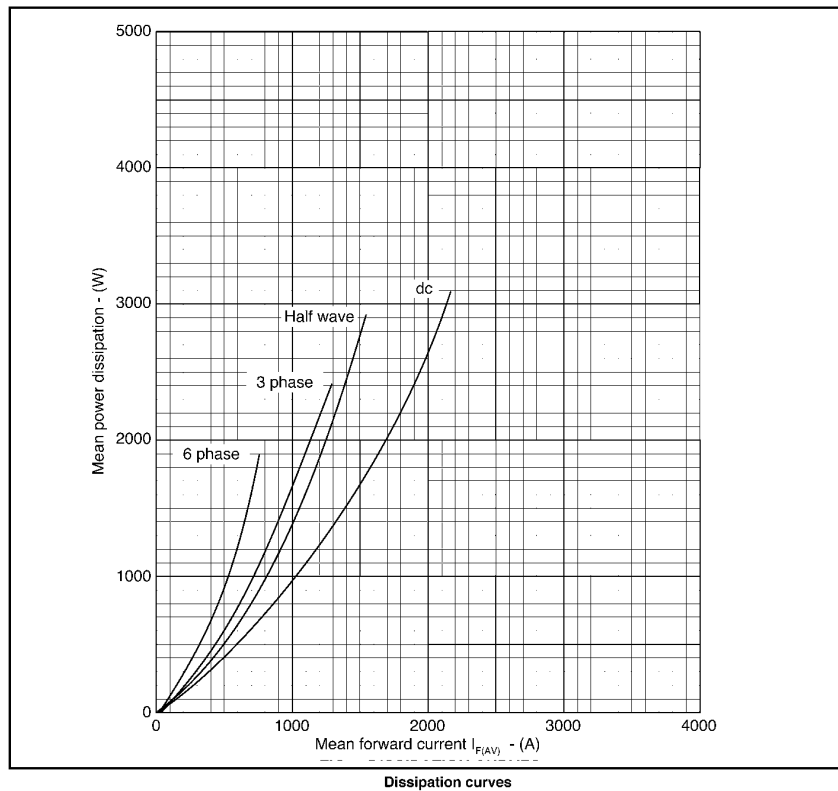
Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
DS1104/20	2000	2100
DS1104/24	2400	2500
DS1104/29	2900	3000

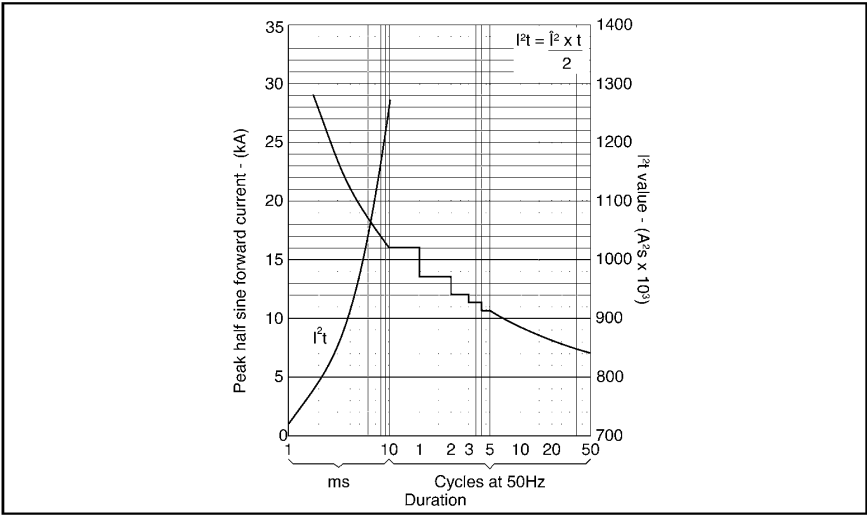
### Features

- Reverse voltage upto 2900V
- Double side cooling.
- High surge capability.

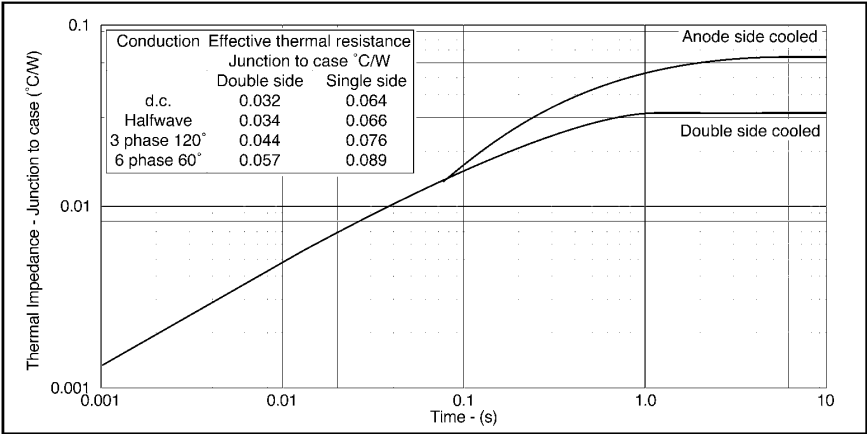
Symbol	Conditions	Values
$I_{F(AV)}$	Sin 180 ; Tcase = 100 °C	1315 A
$I_{FSM}$	Tvj = 175 °C ; 10 ms, $V_{RRM} = 50\%$ Tvj = 175 °C ; 10 ms, $V_{RRM} = 0$	16 KA 20 KA
$I^2t$	Tvj = 175 °C, $V_{RRM} = 50\%$ Tvj = 175 °C, $V_{RRM} = 0$	1280000 A <sup>2</sup> s 2000000 A <sup>2</sup> s
$I_{RRM}$	Tvj = 175 °C	50 mA max
$V_F$ $V_0$ $R_0$	Tvj = 25 °C ; $I_F = 1800 A$ Tvj = 175 °C Tvj = 175 °C	1.30 V max 0.67 V 0.31 m
$R_{th(j-c)}$ $R_{th(c-h)}$ $T_{vj}$ $T_{stg}$		0.032 °C/W 0.008 °C/W 175 °C -40.....+ 175 °C
Clamping Force	SI units	12.5-15 KN
Weight	Approx	310 g
Case outline		G



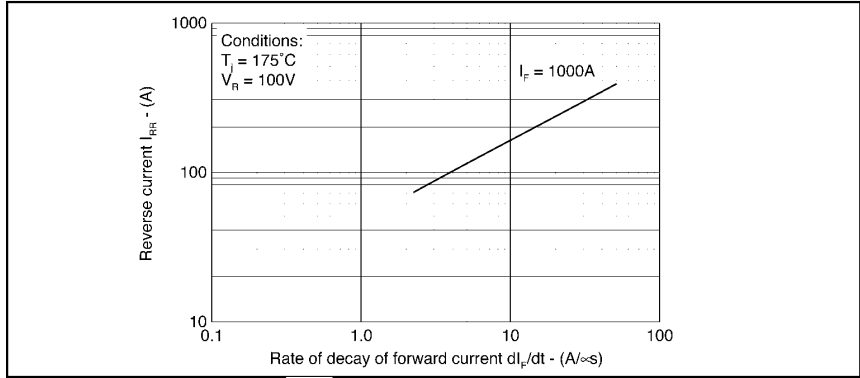




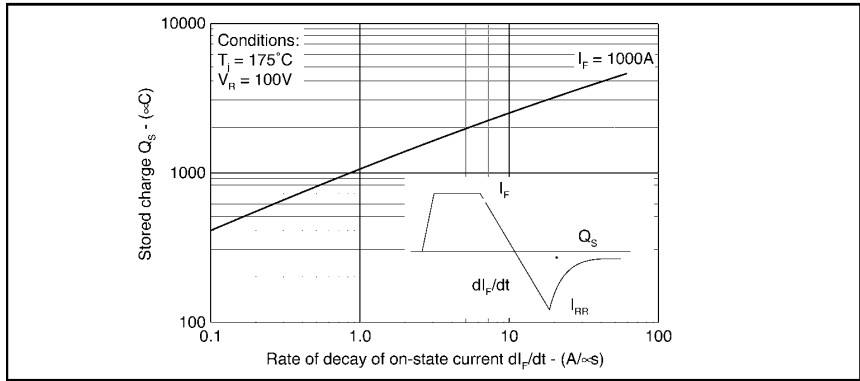
Surge (non-repetitive) forward current vs time (with 50%  $V_{RRM}$ ,  $T_{case} = 175^{\circ}C$ )



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



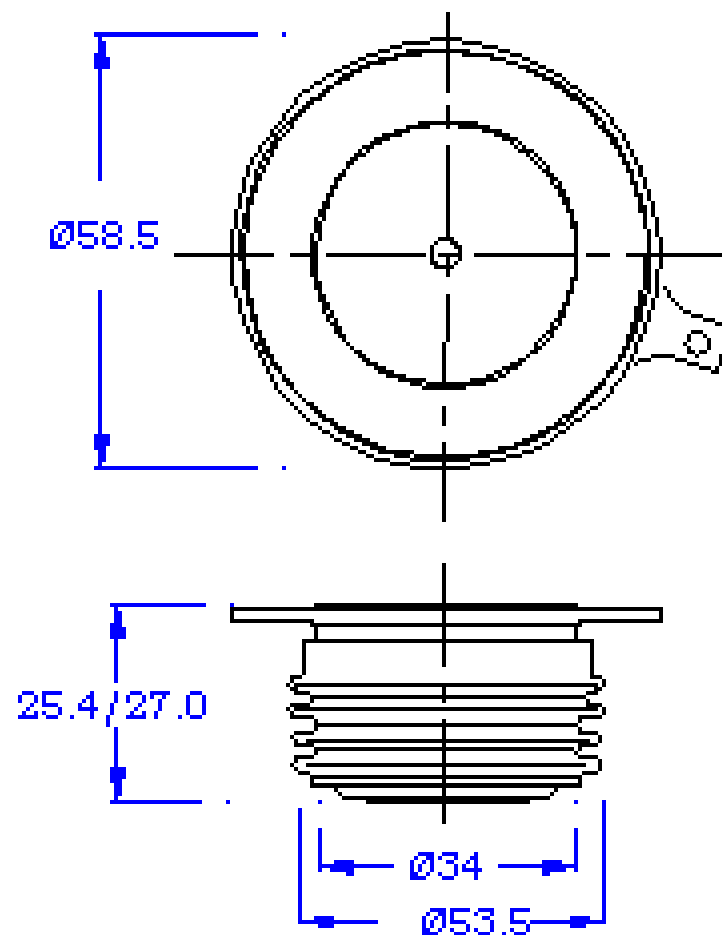
Maximum reverse recovery current



Maximum total stored charge

PACAKAGE DEATILS

DO NOT SCALE



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

All Dimensions in mm

Package Outline : G