

Thyristors

DCR1279



Technical Data

Typical applications : D.C. Motor control, Controlled rectifiers, High power drives.

Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
DCR1279/26	2600	2700
DCR1279/30	3000	3100
DCR1279/34	3400	3500
DCR1279/36	3600	3700
DCR1279/40	4000	4100
DCR1279/44	4400	4500
DCR1279/48	4800	4900

Features

- Double side cooling.
- Voltage grade upto 4800V
- Weight 500 gm (Approx.)

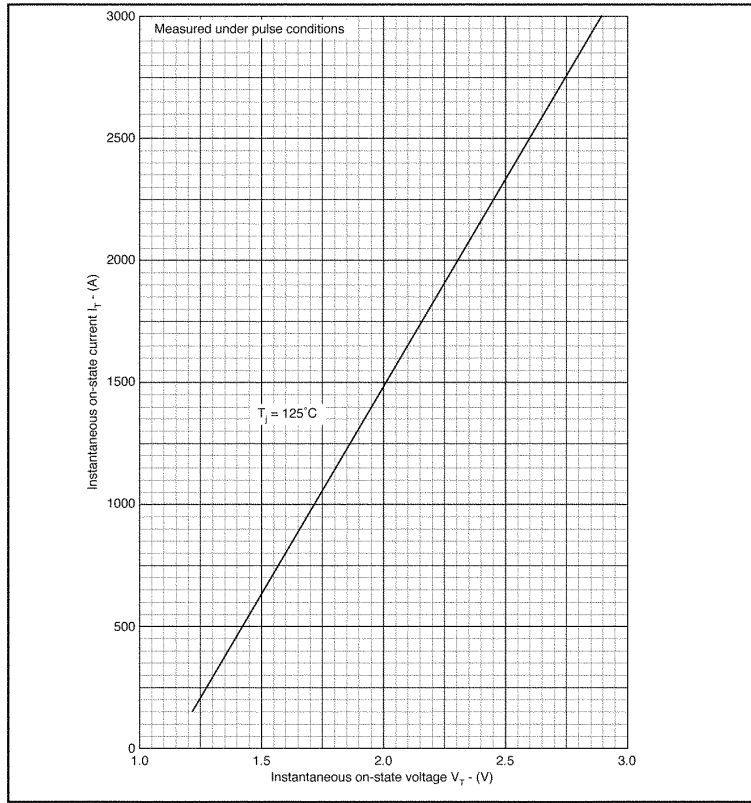
Symbol	Conditions	Values
$I_{T(AV)}$	Half wave resistive load; $T_C = 60^\circ C$	1088A
I_{TSM}	$T_{vj} = 125^\circ C$; 10 ms half sine, $V_R = 50\% V_{RRM}$	12 KA
	$T_{vj} = 125^\circ C$; 10 ms half sine, $V_R = 0$	15 KA
I^2t	$T_{vj} = 125^\circ C$, 10 ms half sine, $V_R = 50\% V_{RRM}$	720000 A ² s
	$T_{vj} = 125^\circ C$; 10 ms half sine, $V_R = 0$	1120000 A ² s
I_{GT} V_{GT} dv/dt [di/dt] _{CR}	$T_{vj} = 25^\circ C$; $V_{DRM} = 5V$	400 mA
	$T_{vj} = 25^\circ C$; $V_{DRM} = 5V$	4.0 V
	$T_{vj} = 125^\circ C$; Voltage = 67 % V_{DRM}	*200V/ μ s
	Repetitive 50 Hz	100 A/ μ s
V_T V_O R_O I_{RRM}/I_{DRM}	$T_{vj} = 25^\circ C$; $I_T = 2900 A$	2.40 V max
	$T_{vj} = 125^\circ C$	1.14 V
	$T_{vj} = 125^\circ C$	0.587 m
	$T_{vj} = 125^\circ C$	150 mA
I_H I_L		500 mA
		1000 mA
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	dc	0.020 $^\circ C/W$
		0.004 $^\circ C/W$
		+125 $^\circ C$
		-40....+125 $^\circ C$
Mounting Force		20-22 KN
Case outline		D

* Higher dv/dt selection available.

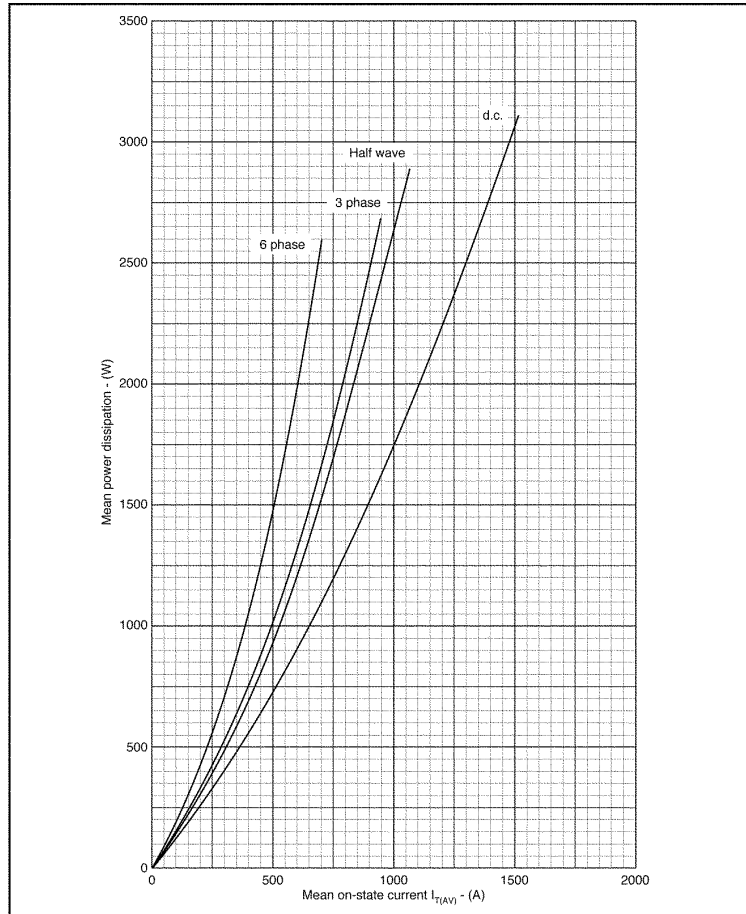


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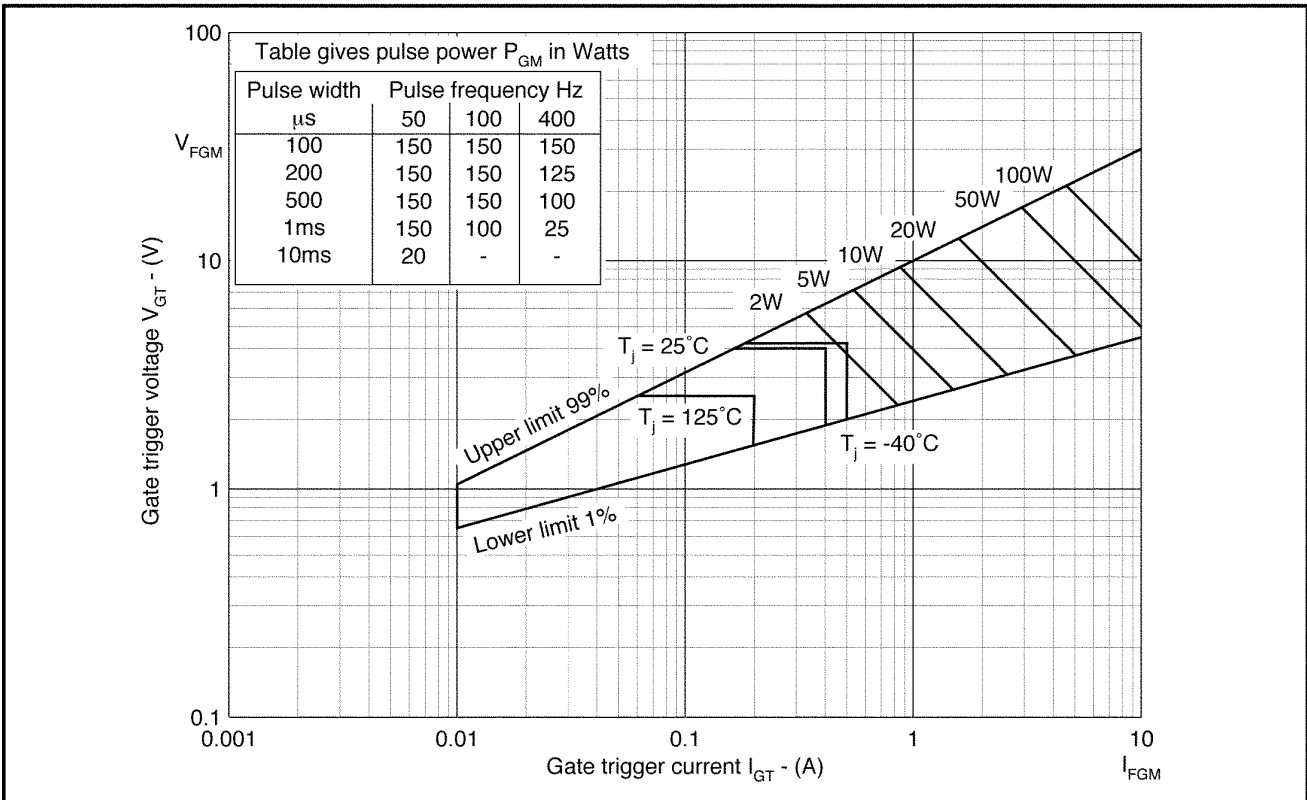
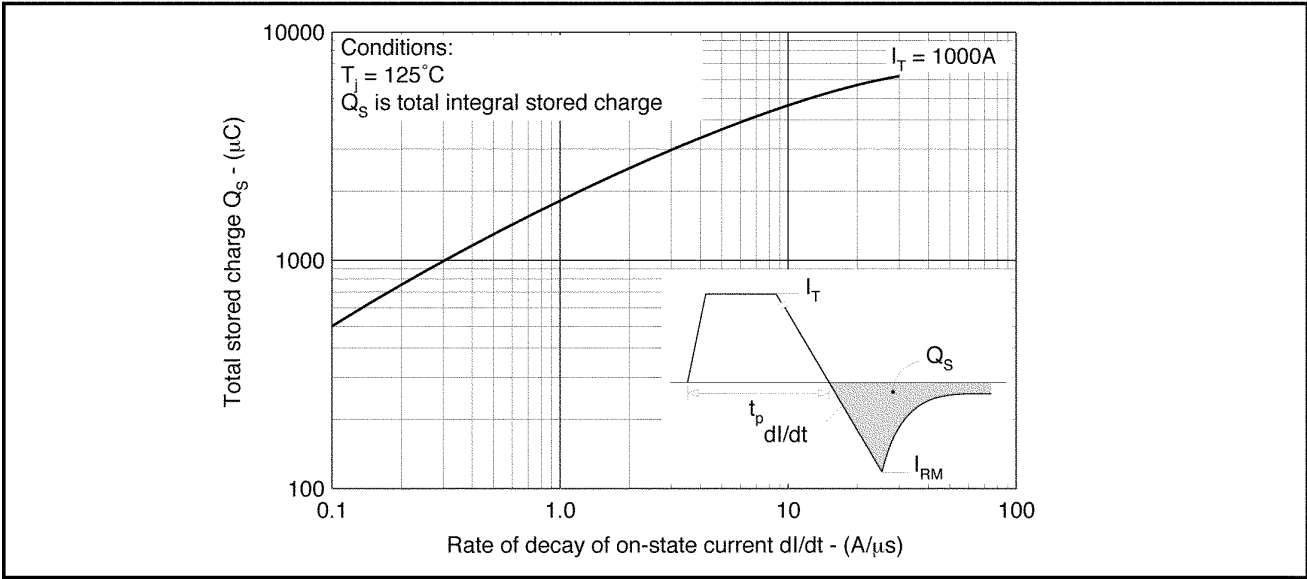
CURVES

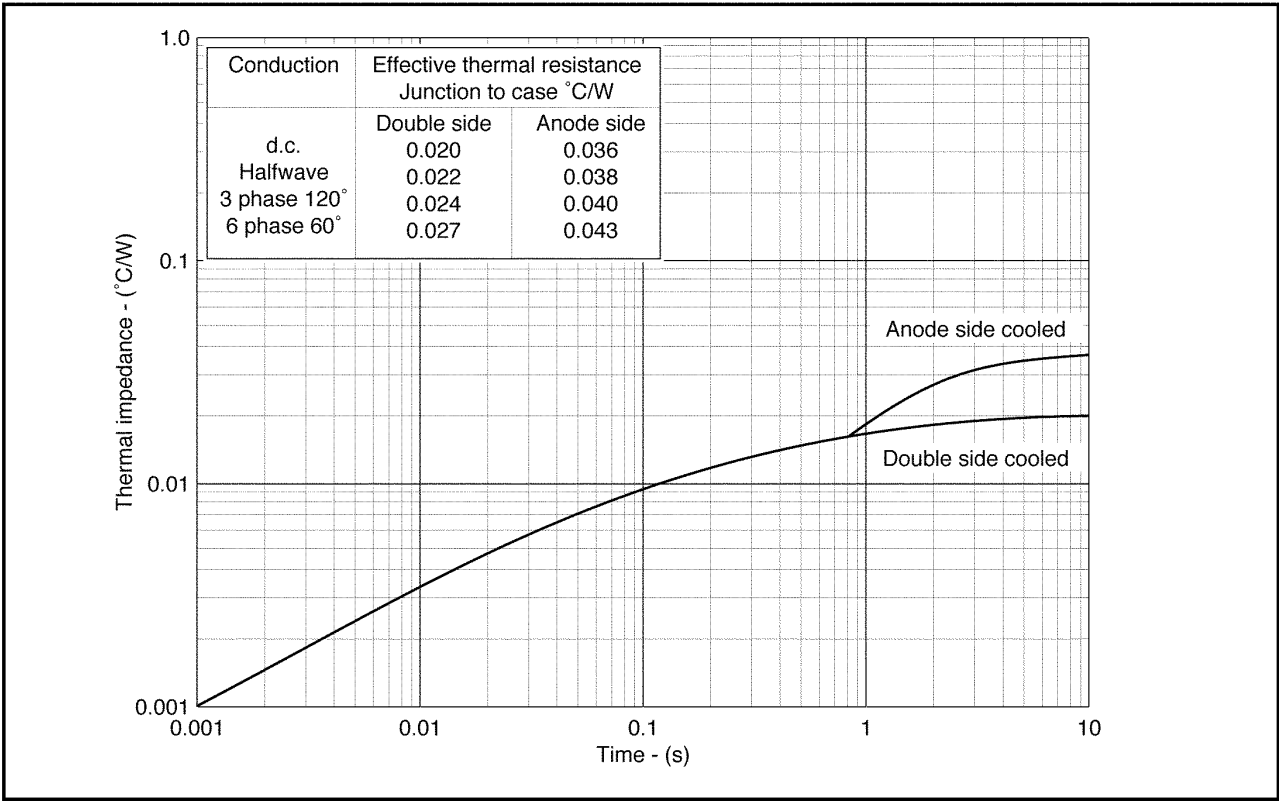


Maximum (limit) on-state characteristics

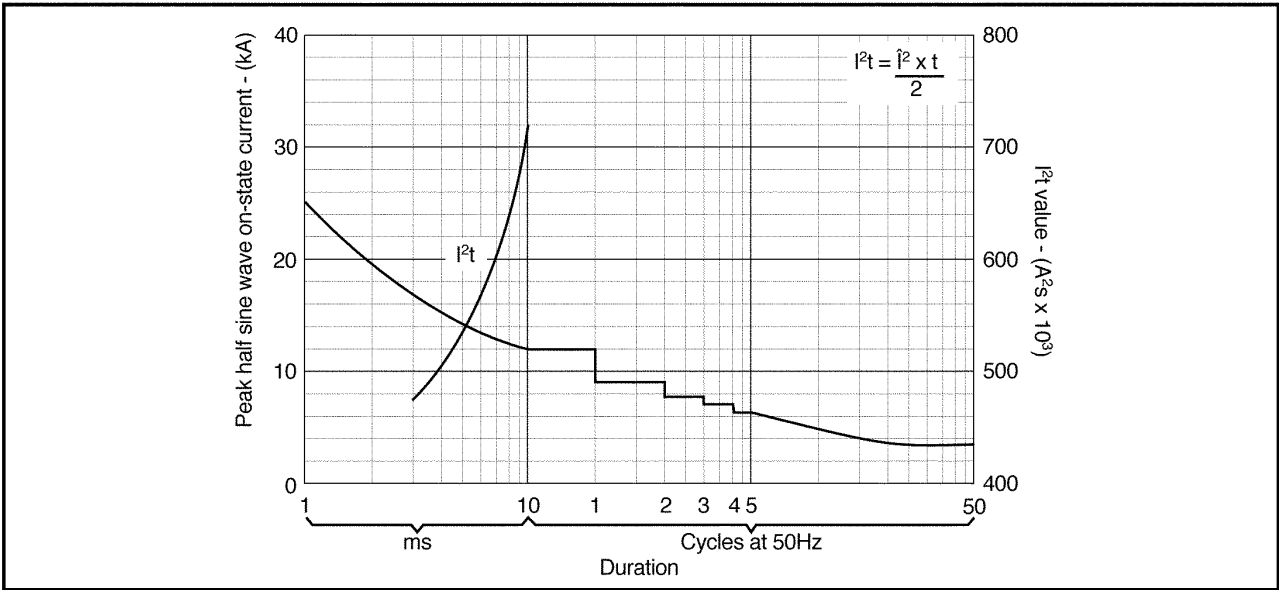


Dissipation curves





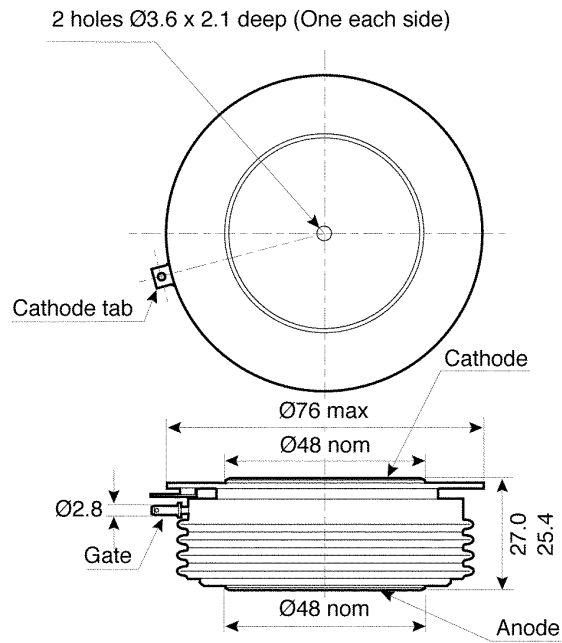
Maximum (limit) transient thermal impedance - junction to case



Surge (non-repetitive) on-state current vs time (with 50% V_{RRM} at T_{case} 125°C)

PACKAGE DETAILS

DO NOT SCALE.



Nominal weight: 500g
Clamping force: 20-22 kN

Package outline : D