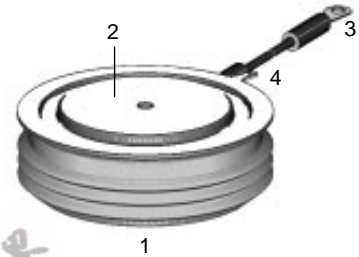
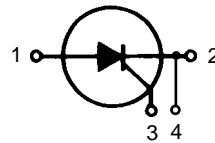




$I_{TRMS} = 2300 \text{ A}$
 $I_{TAVM} = 1000 \text{ A}$
 $V_{RRM} = 1800 - 2500$

V

V_{RSM}	V_{RRM}	Type
V_{DSM}	V_{DRM}	
V	V	
1800	1800	CS 1011 - 18io1
2200	2200	CS 1011 - 22io1
2500	2500	CS 1011 - 25io1



Symbol	Test Conditions	Maximum Ratings
I_{TRMS}	$T_C = 82^\circ\text{C}; 180^\circ \text{ sine}$	2300 A
I_{TAVM}		1000 A
I_{TSM}	$T_{VJ} = 45^\circ\text{C}; V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ 19800 A $t = 8.3 \text{ ms (60 Hz), sine}$ 21000 A
	$T_{VJ} = T_{VJM}; V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ 18000 A $t = 8.3 \text{ ms (60 Hz), sine}$ 20000 A
$\int i^2 dt$	$T_{VJ} = 45^\circ\text{C}; V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ 1960000 A ² s $t = 8.3 \text{ ms (60 Hz), sine}$ 1830000 A ² s
	$T_{VJ} = T_{VJM}; V_R = 0$	$t = 10 \text{ ms (50 Hz), sine}$ 1620000 A ² s $t = 8.3 \text{ ms (60 Hz), sine}$ 1660000 A ² s
$(di/dt)_{cr}$	$T_{VJ} = T_{VJM}; f = 5 \text{ Hz}, t_p = 200 \text{ ms}; V_D = 1/2 V_{DRM}; I_G = 2 \text{ A}; di_G/dt = 2 \text{ A}/\mu\text{s}$	repetitive, $I_T = 2500 \text{ A}$ 320 A/ μs
$(dv/dt)_{cr}$	$T_{VJ} = T_{VJM}; R_{GK} = \infty; \text{method 1 (linear voltage rise)}$	$V_{DR} = 2/3 V_{DRM}$ 1000 V/ μs
P_{GM}	$T_{VJ} = T_{VJM}; I_T = I_{TAVM}$	$t_p = 30 \mu\text{s}$ 120 W
		$t_p = 500 \mu\text{s}$ 60 W
		$t_p = 10 \text{ ms}$ 16 W
V_{RGM}		5 V
T_{VJ}		-40...+125 °C
T_{VJM}		125 °C
T_{stg}		-40...+ 50 °C
M_d	Mounting force	24 ... 28 kN
Weight		600 g

Features

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Typical Applications

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Data according to DIN/IEC 747-6
IXYS reserves the right to change limits, test conditions and dimensions

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IXYS Corporation
3540 Bassett Street, Santa Clara CA 95054
Phone: (408) 982-0700 Fax: 408-496-0670

IXYS Semiconductor GmbH
Edisonstr. 15, D-68623 Lampertheim, Germany
Phone: +49-6206-5030 Fax: +49-6206-503627

Symbol	Test Conditions	Characteristic Values
I_R, I_D	$T_{VJ} = T_{VJM}; V_R = V_{RRM}; V_D = V_{DRM}$	≤ 60 mA
V_T	$I_T = 3.14 I_{TAVM}; T_{VJ} = 25^\circ\text{C}$	≤ 2.1 V
V_{T0}	For power-loss calculations only ($T_{VJ} = 125^\circ\text{C}$)	1.2 V
r_T		0.32 m Ω
V_{GT}	$V_D = 12$ V; $T_{VJ} = 25^\circ\text{C}$	≤ 3.0 V
I_{GT}	$V_D = 12$ V; $T_{VJ} = 25^\circ\text{C}$	≤ 300 mA
V_{GD}	$T_{VJ} = T_{VJM}; V_D = 2/3 V_{DRM}$	≤ 0.25 V
I_L	$T_{VJ} = 25^\circ\text{C}; t_p = 10$ μs $I_G = 2$ A; $di_G/dt = 2$ A/ μs	≤ 1.0 A
I_H	$T_{VJ} = 25^\circ\text{C}; V_D = 12$ V; $R_{GK} = \infty$	≤ 0.3 A
t_{gd}	$T_{VJ} = 25^\circ\text{C}; V_D = 500$ V $I_G = 2$ A; $di_G/dt = 2$ A/ μs	≤ 2.5 μs
t_q	$T_{VJ} = T_{VJM}; I_T = 1000$ A, $t_p = 200$ μs ; $di/dt = -10$ A/ μs typ. 150 μs $V_R = 100$ V; $dv/dt = 50$ V/ μs ; $V_D = 2/3 V_{DRM}$	
R_{thJC}		0.02 K/W

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Dimensions in mm (1 mm = 0.0394")

