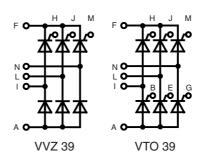


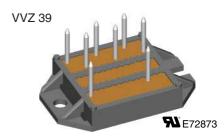
Three Phase Rectifier Bridge

 $I_{dAV} = 39 A$ $V_{RRM} = 800/1200 V$

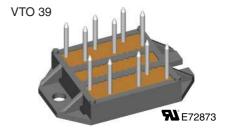
Preliminary data

\mathbf{V}_{RSM}	\mathbf{V}_{RRM}	Туре	
$\mathbf{V}_{\mathrm{DSM}}$	\mathbf{V}_{DRM}		
V	٧		
900	800	VTO 39-08ho7	VVZ 39-08ho7
1300	1200	VTO 39-12ho7	VVZ 39-12ho7





Symbol	Conditions	Maximum Ratings		
I _{dAV} ① I _{TAVM}	$T_C = 85^{\circ}C$; module $T_C = 85^{\circ}C$ (180° sine; per thyristor)	39 16	A A	
I _{TSM}	$T_{VJ} = 45$ °C $t = 10 \text{ ms}$ (50 Hz) $V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	200 210	A A	
	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz) $V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	180 190	A A	
l²t	$T_{VJ} = 45^{\circ}C$ $t = 10 \text{ ms}$ (50 Hz) $V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	200 150	A²s A²s	
	$T_{VJ} = T_{VJM}$ $t = 10 \text{ ms}$ (50 Hz) $V_R = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	160 150	A ² s A ² s	
(di/dt) _{cr}	$T_{VJ} = T_{VJM}$ repetitive; $I_T = 20 \text{ A}$ $f = 50 \text{ Hz}$; $t_p = 200 \mu\text{s}$	100	A/µs	
	$V_D = {}^2\!/_3 V_{DRM}$ non repetitive; $I_G = 0.15 A$ $I_T = I_{TAVM}$ $di_G/dt = 0.15 A/\mu s$	500	A/µs	
(dv/dt) _{cr}	$T_{VJ} = T_{VJM}$; $V_D = {}^2/_3 V_{DRM}$ $R_{GK} = \infty$, method 1 (linear voltage rise)	500	V/µs	
V _{RGM}		10	V	
P _{GM}	$\begin{split} T_{VJ} &= T_{VJM} & t_p = 30 \; \mu s \\ I_T &= I_{TAVM} & t_p = 300 \; \mu s \end{split}$	≤ 5 ≤ 2.5 0.5	W W W	
T _{VJ} T _{VJM} T _{stg}		-40+125 125 -40+125	°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°	
V _{ISOL}	50/60 Hz, RMS $t = 1 \text{ min}$ $I_{ISOL} \le 1 \text{ mA}$ $t = 1 \text{ s}$	2500 3000	V~ V~	
M _d	Mounting torque (M4)	1.5 - 2 14 - 18	Nm lb.in.	
Weight	Тур.	18	g	



Features

- Package with DCB ceramic base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- Low forward voltage drop
- · Leads suitable for PC board soldering

Applications

- Supplies for DC power equipment
- Input rectifiers for PWM inverter
- Battery DC power supplies
- Field supply for DC motors

Advantages

- Easy to mount with two screw
- Space and weight savings
- Improved temperature & power cycling capability
- Small and light weight

Data according to IEC 60747 and refer to a single diode unless otherwise stated

Disclaimer Notice

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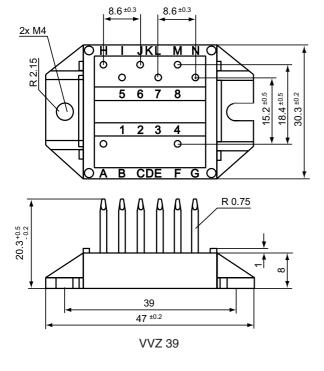
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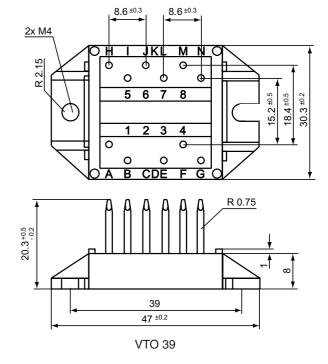
20200117b



Symbol	Conditions	Characteristic Values			
I _D ; I _R	$V_R = V_{RRM}; V_D = V_{DRM}$	$T_{VJ} = T_{VJM}$	<u>≤</u>	5	mA
V _T	$I_{T} = 20 \text{ A}$	$T_{VJ} = 25^{\circ}C$	<u><</u>	1.6	V
V _{T0}	For power-loss calculations only	T _{vJ} = 125°C		0.85 27	V mΩ
V _{GT}	$V_D = 6 V$	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = -40^{\circ}C$	≤ ≤	1.5 2.5	V
I _{GT}	V _D = 6 V	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = -40^{\circ}C$	≤ ≤	25 50	mA mA
V _{GD}	$V_D = \frac{2}{3}V_{DRM}$	$T_{VJ} = T_{VJM}$	≤ ≤	0.2	V mA
I _L	$t_p = 10 \ \mu s$ $I_G = 0.1 \ A; \ di_G/dt = 0.1 \ A/\mu s$	$T_{VJ} = 25^{\circ}C$	<u>≤</u>	75	mA
I _H	$V_D = 6 V$; $R_{GK} = \infty$	$T_{VJ} = 25^{\circ}C$	<u>≤</u>	50	mA
t _{gd}	$V_D = \frac{1}{2}V_{DRM}$ $I_G = 0.1 \text{ A}; di_G/dt = 0.1 \text{ A/}\mu\text{s}$	$T_{VJ} = 25^{\circ}C$	<u>≤</u>	2	μs
R _{thJC}	per thyristor / diode; DC per module			1.3 0.22	K/W K/W
R _{thJH}	per thyristor / diode; DC per module			1.8 0.3	K/W K/W
d _s d _A a	Creeping distance on surface Creepage distance in air Max. allowable acceleration	9		11.2 5 50	mm mm m/s²

Dimensions in mm (1 mm = 0.0394")





IXYS reserves the right to change limits, test conditions and dimensions.

20200117b

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