imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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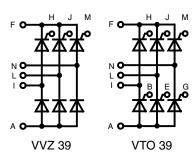


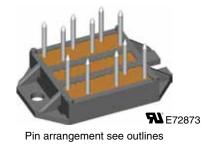
Three Phase Rectifier Bridge

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

Preliminary data

V_{RSM}	V _{RRM}	Туре	
V_{DSM}	V_{drm}		
V	V		
900	800	VTO 39-08ho7	VVZ 39-08ho7
1300	1200	VTO 39-12ho7	VVZ 39-12ho7





Symbol	Conditions	Maximum Ra	Maximum Ratings	
dav ①	$T_c = 85^{\circ}C$; module	39 16	A	
	$T_c = 85^{\circ}C (180^{\circ} \text{ sine; per thyristor})$		A	
I _{TSM}	$T_{VJ} = 45^{\circ}C$ t = 10 ms (50 Hz) $V_{R} = 0$ t = 8.3 ms (60 Hz)	200 210	A A	
	$T_{VJ} = T_{VJM}$ t = 10 ms (50 Hz) V _B = 0 t = 8.3 ms (60 Hz)	180 190	A A	
l²t	$T_{VJ} = 45^{\circ}C$ $t = 10 \text{ ms}$ (50 Hz) $V_{B} = 0$ $t = 8.3 \text{ ms}$ (60 Hz)	200 150	A²s A²s	
	$T_{VJ} = T_{VJM}$ t = 10 ms (50 Hz) V _R = 0 t = 8.3 ms (60 Hz)	160 150	A²s A²s	
(di/dt) _{cr}	$T_{vJ} = T_{vJM}$ repetitive; $I_T = 20 \text{ A}$ f = 50 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}	$\begin{array}{ll} T_{\text{VJ}} = T_{\text{VJM}} & t_{\text{p}} = -30 \ \mu\text{s} \\ I_{\text{T}} = I_{\text{TAVM}} & t_{\text{p}} = 300 \ \mu\text{s} \end{array}$	≤ 5 ≤ 2.5 0.5	W W W	
P _{GAVM}				
T _{VJ} T _{VJM} T _{stg}		-40+125 125 -40+125	0° ℃ ℃	
V _{ISOL}	$\begin{array}{ll} 50/60 \text{ Hz}, \text{ RMS} & t=1 \text{ min} \\ I_{\text{ISOL}} \leq 1 \text{ mA} & t=1 \text{ s} \end{array}$	2500 3000	V~ V~	
M _d	Mounting torque (M4)	1.5 - 2 14 - 18	Nm lb.in.	
Weight	Тур.	18	g	

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

① for resistive load at bridge output.

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

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

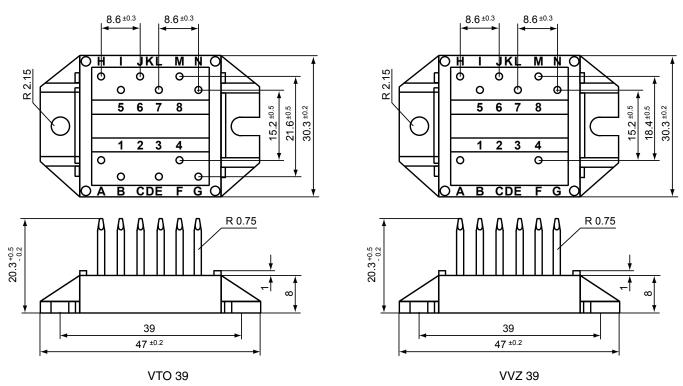
Advantages

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

LIXYS

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

Dimensions in mm (1 mm = 0.0394")



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