



MDS35-4 THRU MDS35-16

Three Phase Bridge Rectifiers



Features

- UL recognition, file #E230084
- Low thermal resistance
- Glass passivated chip junction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

Typical Applications

General purpose use in AC/DC bridge full wave rectification for Server Frequency converter Industrial power supply.

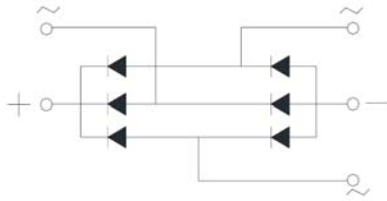
Mechanical Data

Package: MDS35

Molding compound meets UL 94 V-0 flammability rating

Terminals: Au plated leads, solderable per J-STD-002 and JESD22-B102

Polarity: As marked on body



Maximum Ratings (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MDS35-4	MDS35-6	MDS35-8	MDS35-10	MDS35-12	MDS35-14	MDS35-16
Device marking code			MDS35-	r	-6-	MDS35-10	MDS35-12	MDS35-14	MDS35-16
Maximum Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Maximum RMS Voltage	VRMS	V	280	420	560	700	840	980	1120
Maximum DC blocking Voltage	VDC	V	400	600	800	1000	1200	1400	1600

Average rectified output current With heatsink
@60Hz sine wave, R-load T_c =105

I_O

A

@6

I_Δ

Δ

Δ

@1ms, square wave, 1 cycle, T_j=25

Current squared time @1ms t 8.3ms T _j =25 , Rating of per diode	I ² t	A ² s				664			
Storage temperature	T _{stg}					-55 ~ +150			
Junction temperature	T _j					-55 ~ +150			
Dielectric strength @ Terminals to case, AC 1 minute	V _{dis}	KV				2.5			
Mounting torque @Recommend torque 5kg cm	Tor	kg cm				8			



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Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MDS35-4	MDS35-6	MDS35-8	MDS35-10	MDS35-12	MDS35-14	MDS35-16
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =17.5A				1.1			
Maximum DC reverse current at rated DC blocking voltage per diode	I _R	μA	T _j =25				5			
			T _j =125				500			
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C				185			

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	MDS35-4	MDS35-6	MDS35-8	MDS35-10	MDS35-12	MDS35-14	MDS35-16
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Outline Dimensions

MDS35		
Dim	Min	Max
A	32.0	33.0
B	23.7	24.7
C	15.5	16.5
D	8.6	9.4 9.4 .6



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