



MDS35-4 THRU MDS35-16

Three Phase Bridge Rectifiers



Features

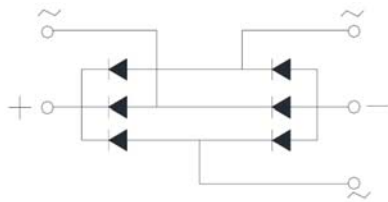
- UL recognition, file #E230084
- Low thermal resistance
- Glass passivated chip junction
- High surge current capability
- Solder dip 275 °C max. 7 s, per JESD 22-B106

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

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@6 ⅔ I% £ " %
@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	VF	V	$I_{FM}=17.5A$	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR	μA	$T_j=25$	5						
			$T_j=125$	500						
Typical junction capacitance	Cj	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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