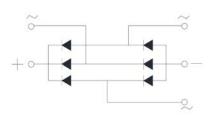




Three Phase Bridge Rectifiers





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 (Ta=25°C Unless otherwise specified)

Individual Natings (1a-20 © Offices Offices Specifica)						
PARAMETER		SYMBOL	UNIT	MDS50-16		
Device marking code				MDS50-16		
Maximum Repetitive Peak Reverse Voltage		VRRM	V	1600		
Maximum RMS Voltage		VRMS	V	1120		
Maximum DC blocking Voltage		VDC	٧	1600		
Average rectified output current @60Hz sine wave, R-load	With heatsink Tc =90°C	lo	Α	50		
Forward Surge Current (Non-repetitive) @8.3ms Half-sine wave,1 cycle, Tj=25°C		IFSM	Α	450		
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25°C				900		
Current squared time @1ms≤t≤8.3ms Tj=25°C, Rating of per diode		l²t	A ² s	840		
Storage temperature		Tstg	°C	-55 ~ +150		
Junction temperature		Tj	°C	-55 ~ + 150		
Dielectric strength @ Terminals to case, AC 1 minute		Vdis	KV	2.5		
Mounting torque @Recommend torque: 5kg·cm		Tor	kg·cm	8		

MDS50-16

■Electrical Characteristics (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MDS50-16
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=25A	1.15
Maximum DC reverse current at rated DC blocking voltage per diode	lR	μΑ	T _j =25°C	5
			T _j =125°C	500
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	185

■Thermal Characteristics $(T_a=25$ $^{\circ}$ C Unless otherwise specified)

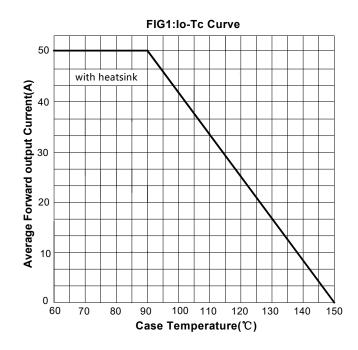
PARAMETER		SYMBOL	UNIT	MDS50-16
Typical Thermal Resistance	Between junction and case, With heatsink	R ₀ J-C	°C/W	0.5

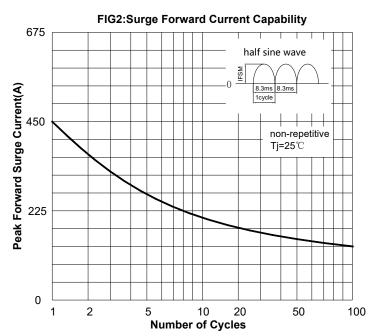
Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

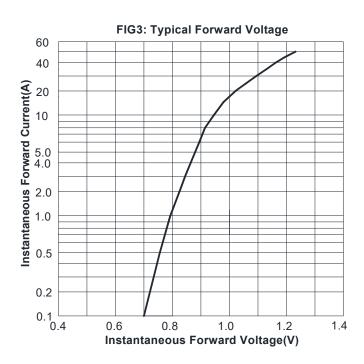
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MDS50-16	A1	Approximate 17.5	50	50	500	Paper Box

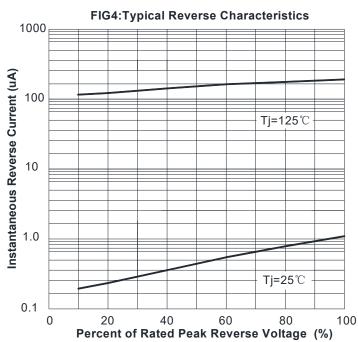
■ Characteristics (Typical)



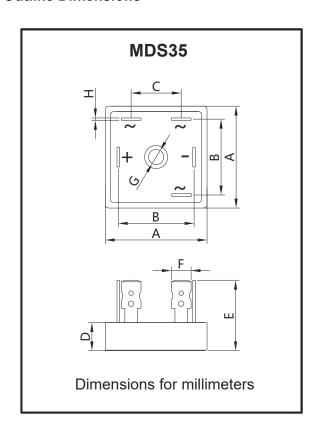








■ Outline Dimensions



MDS35					
Dim	Min	Max			
Α	32.0	33.0			
В	23.7	24.7			
С	15.5	16.5			
D	8.6	9.4			
E	22	24			
F	6.2	6.5			
G	4.8	5.4			
Н	0.75	0.85			



MDS50-16

Disclaimer

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