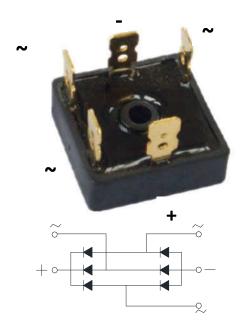


Three Phase Bridge Rectifiers



Features

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

Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

• Package: MDS

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

• **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings (Ta=25°C Unless otherwise specified)

■ Maximum Ratings (Ta-23 € Offiess Offierwise specified)									
PARAMETER	SYMBOL	UNIT	MDS2504	MDS2506	MDS2508	MDS2510	MDS2512	MDS2514	MDS2516
Device marking code			MDS2504	MDS2506	MDS2508	MDS2510	MDS2512	MDS2514	MDS2516
Repetitive Peak Reverse Voltage	VRRM	٧	400	600	800	1000	1200	1400	1600
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, Tc=55°C	lo	А	25						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25℃	IFSM	А	400						
Current Squared Time @1ms≤t≤8.3ms Tj=25˚ℂ, Rating of per diode	l ² t	A ² S	660						
Storage Temperature	T _{stg}	$^{\circ}$	-55~+150						
Junction Temperature	Tj	°C	-55 ~+150						
Dielectric Strength, Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting Torque	TOR	kg cm	10						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	MDS2504	MDS2506	MDS2508	MDS2510	MDS2512	MDS2514	MDS2516
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=12.5A				1.2			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	VRM=VRRM	10						

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

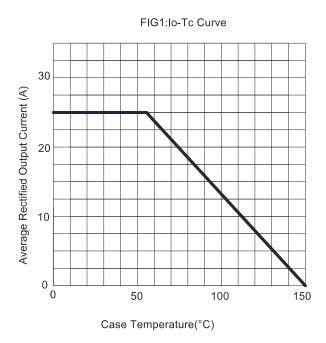
P.A	RAMETER	SYMBOL	UNIT	MDS2504	MDS2506	MDS2508	MDS2510	MDS2512	MDS2514	MDS2516
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W				1.7			



■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
MDS2504~MDS2516	A1	Approximate 17.5	50	50	500	Paper Box

■ Characteristics (Typical)



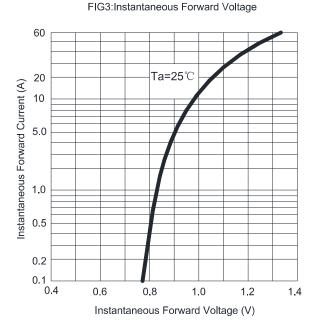


FIG2:Surge Forward Current Capability

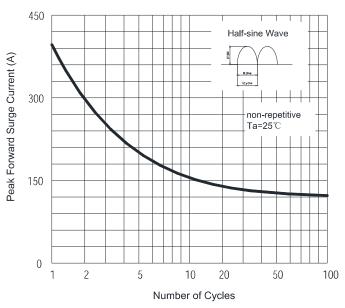
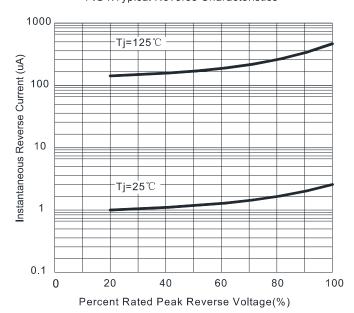
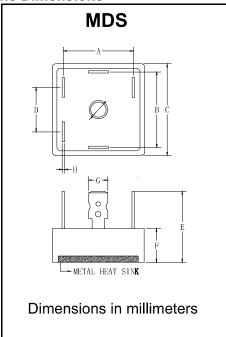


FIG4:Typical Reverse Characteristics





■ Outline Dimensions



MDS					
Dim	Min	Max			
А	23.3	24.3			
В	23.3	24.3			
С	28.2	28.8			
D	15.5	16.5			
Е	1	25			
F	9	10			
G	6.2	6.4			
Н	0.75	0.85			



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