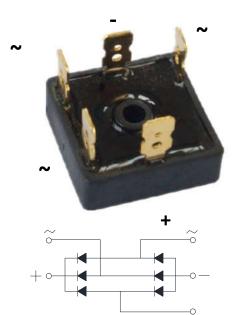
Three Phase Bridge Rectifiers



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: PSD

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)

PARAMETER	SYMBOL	UNIT	PSD5004	PSD506	PSD5008	PSD5010	PSD5012	PSD5014	PSD5016
Device marking code			PSD5004	PSD5006	PSD5008	PSD5010	PSD5012	PSD5014	PSD5016
Repetitive Peak Reverse Voltage	VRRM	V	400	600	800	1000	1200	1400	1600
Average Rectified Output Current $@60$ Hz sine wave, R-load, With heatsink, Tc=55 $^{\circ}$ C	lo	А	50						
Surge(Non-repetitive)Forward Current @60Hz Half- sine Wave, 1 cycle, Ta=25°C	IFSM	А	500						
Current Squared Time @1ms≤t≤8.3ms Tj=25 [°] C, Rating of per diode	I ² t	A ² S	1040						
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	PSD5004	PSD5006	PSD5008	PSD5010	PSD5012	PSD5014	PSD5016
Maximum instantaneous forward voltage drop per diode	VFM	٧	IFM=25A				1.2			
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μΑ	VRM=VRRM				10			

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

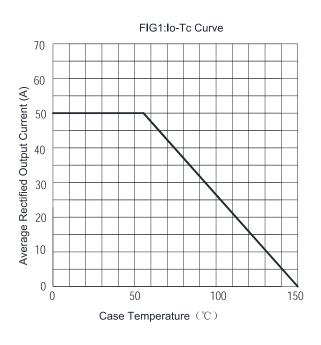
P	ARAMETER	SYMBOL	UNIT	PSD5004	PSD5006	PSD5008	PSD5010	PSD5012	PSD5014	PSD5016
Thermal Resistance	Between junction and case, With heatsink	R θ J-C	°C/W	0.88						



■ Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
PSD5004~PSD5016	A1	Approximate 17.5	50	50	500	Paper Box

■ Characteristics (Typical)



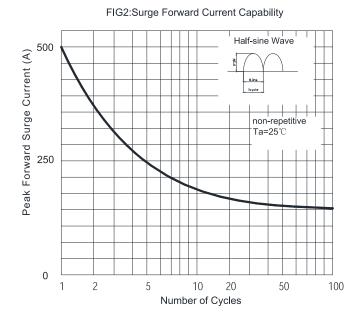


FIG3:Instantaneous Forward Voltage

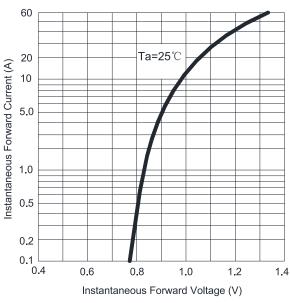
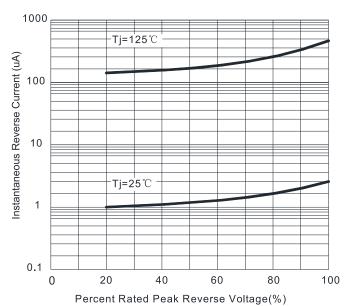
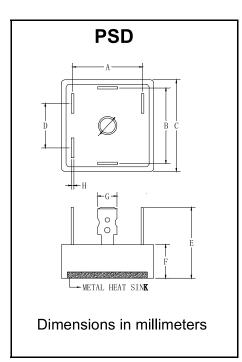


FIG4:Typical Reverse Characteristics





■ Outline Dimensions



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



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