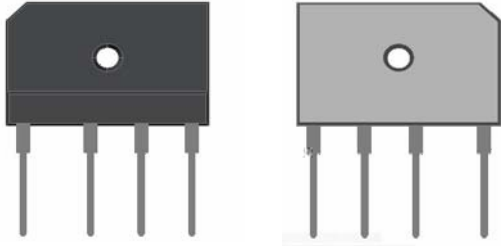


Bridge Rectifiers

Features

Glass passivated chip junction
Thin single in-line package
High surge current capability
Solder dip 275 °C max. 7 s, per JESD 22-B106



Mechanical Data

Package: PB

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

Terminals: Tin 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	YG50DD60	YG50DD80	YG50DD100	YG50DD120
Device marking code			YG50DD60	YG50DD80	YG50DD100	YG50DD120
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	V	600	800	1000	1200
Maximum RMS Voltage	V _{RMS}	V	420	560	700	840
Maximum DC blocking Voltage	V _{DC}	V	600	800	1000	1200
Average rectified output current @60Hz sine wave, R-load	With heatsink T _c =100	I _o	A	50*2		
	Without heatsink T _a =25			15*2		
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	600			
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			1200			
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			

Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	YG50DD60	YG50DD80	YG50DD100	YG50DD120
Maximum instantaneous forward voltage drop per diode	V _F	V	I _{FM} =25.0A	1.05			
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	292			



YG50DD60 THRU YG50DD120

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	YG50DD60	YG50DD80	YG50DD100	YG50DD120
Thermal Resistance Between junction and ambient, Without heatsink	R_{M}	MRS				



Electrical circuit diagram and structural diagram

Outline Dimensions

PB		
Dim	Min	Max
A	29.7	30.3
B	19.7	20.3
C	17.0	18.0
D	4.8	5.8
E	3.8	4.2
F	7.3	7.7
G	9.8	10.2
H	0.9	1.1
I	2.0	2.4



YG50DD60 THRU YG50DD120

Disclaimer

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