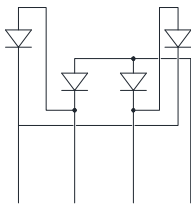
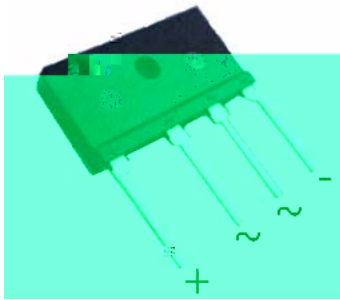


Low VF Bridge Rectifiers



Features

- UL recognition, file #E230084
- based on silicon planar process
- Low VF
- Thin single in-line package
- 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 switching power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package:** JA
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Polarity:** As marked on body

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

PARAMETER		SYMBOL	UNIT	
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink T _C =105	I _O	A	25.0
	Without heatsink T _a =25			4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave,1 cycle, T _j =25		I _{FSM}	A	360
Current squared time @1ms≤t≤8.3ms T _j =25 ,rating of per diode		I ² t	A ² S	538
Storage temperature		T _{stg}		-55 ~ +150
Junction temperature		T _j		-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute		V _{dis}	KV	2
Mounting torque @Recommend torque 5kg cm		T _{or}	kg cm	8



D25JAU60

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Instantaneous forward voltage drop per diode	V_F	V	$I_{FM}=12.5A$	0.80	0.88	0.92
DC reverse current at rated DC blocking voltage per diode	I_R	μA	$T_j=25$	-	0.005	5
			$T_j=125$	-	-	50
Junction capacitance	C_j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	85	190	380

■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER		SYMBOL	UNIT	D25JAU60
Thermal Resistance	Between junction and ambient, Without heatsink	$R_{\theta J-A}$		18.0
			/W	

D25JAU60



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