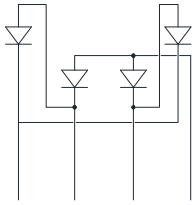
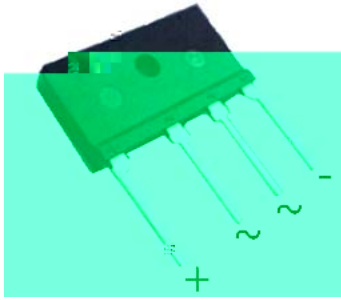


Low VF Bridge Rectifiers



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 ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT		
Average Rectified Output Current @60Hz sine wave, R-load	With heatsink $T_c = 105$	IO	A	25.0
	Without heatsink $T_a = 25$			4.0
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, $T_j = 25$	IFSM	A		360
Current squared time @1ms t 8.3ms $T_j = 25$, rating of per diode	I^2t	A ² S		538
Storage temperature	T_{stg}			-55 ~ +150
Junction temperature	T_j			-55 ~ +150
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV		2
Mounting torque @Recommend torque 5kg cm	Tor	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
Between junction and ambient, Without heatsink	R J-A		18.0
Thermal Resistance		/W	

D25JAU60



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