3.0A BRIDGE RECTIFIERS

Features

- Diffused junction
- High current capability
- High case dielectric strength
- High surge current capability
- · Ideal for printed circuit board application
- Plastic material has underwriters laboratory flammability classification 94V-O

Mechanical Data

- Case: Molded Plastic
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Marked on body

Absolute Maximum Ratings and Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load, For capacitive load, derate current by 20%.

	Symbols	BR	BR	BR	BR	BR	BR	BR	Units
		305	31	32	34	36	38	310	
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Average rectified output current (note1)at T_{C} = 50°C	Ι _Ο	3.0						Α	
Non-repetitive Peak forward surge current									
8.3ms single half sine wave superimposed	IFEM	50							Α
on rated load (JEDEC Method)	FSM								
Maximum instantaneous forward voltage drop per leg	Ve				12				V
at 1.5A	۷F				1.2				v
Maximum DC reverse current $T_{C} = 25^{\circ}C$		10						μA	
at rated DC blocking voltage per leg $T_{C} = 100^{\circ}C$	I _R	1.0						mA	
Rating for fusing (t<8.3ms)(note 2)	l ² t	10						A ² s	
Typical junction capacitance(note3)	Cj	55						pF	
Typical thermal resistance per leg (note 4)	R _{θ JC}	25					K/W		
Operating junction and storage temperature range	T_J , T_{Stg}	-65 to +125						°C	

Notes: 1. Mounted on metal chassis

- 2. Non-repetitive, for t >1 ms and < 8.3 ms
- 3. Measured at 1.0 MHz and applied reverse voltage of 4.0 V.DC

4. Thermal resistance junction to case per element





Dimensions in mm



Forward Current Derating Curve

Typical Forward Characteristics, per element



Max Non-repetitive Peak Forward Surge Current



Typical Reverse Characteristics, per element



