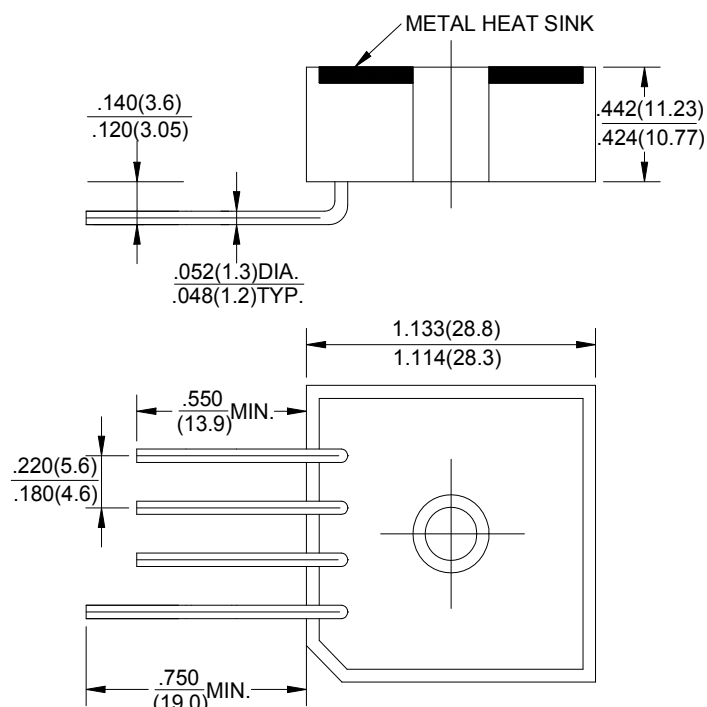


BR-L 10A/15A/25A/35A/50A



Dimensions in inches and (millimeters)

Package:BR-L

SILICON BRIDGE RECTIFIERS

REVERSE VOLTAGE - 50 to 1000Volts

FORWARD CURRENT - **10-50Amperes**

FEATURES

- Plastic case with heatsink for heat dissipation
- Surge overload -240~500 Amperes peak
- The plastic package has UL

flammability classification 94V-0

MECHANICAL DATA

- Case:Molded plastic with heatsink integrally mounted in the bridge encapsulation
- Weight:0.576 ounce,16.33 grams.
- Mounting position: Any
- Terminals:Wire Lead Φ 50 mils.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave ,60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	BR		BR		BR		BR		BR		BR		UNIT		
		1005L		101L		102L		104L		106L		108L			1010L	
		1505L		151L		152L		154L		156L		158L			1510L	
		2505L		251L		252L		254L		256L		258L			2510L	
		3505L		351L		352L		354L		356L		358L			3510L	
		5005L		501L		502L		504L		506L		508L			5010L	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50		100		200		400		600		800		1000		V
Maximum RMS Bridge Input 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
Maximum Average Forward Current for Resistive Load @T _C =55°C	I _(AV)	BR 10L	10	BR 15L	15	BR 25L	25	BR 35L	35	BR 50L	50	A				
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Super Imposed on Rated Load	I _{FSM}	10L	240	15L	300	25L	400	35L	400	50L	500	A				
Maximum Forward Voltage Per Bridge Element at 5.0/7.5/12.5/17.5A/25A Peak	V _F	1.1												V		
Maximum Reverse Current at Rate @T _A =25°C DC Blocking Voltage @T _A =100°C	I _R	10 1000												μ A		
I ² t Rating for Fusing (t<8.3ms)	I ² t	374/664												A ² S		
Typical Thermal Resistance (FIG.3)	R _{θJC}	2.0												°C/W		
Operating Temperature Range	T _J	-55 to +125												°C		
Storage Temperature Range	T _{STG}	-55 to +125												°C		

SILICON BRIDGE RECTIFIERS RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD SURGE CURRENT

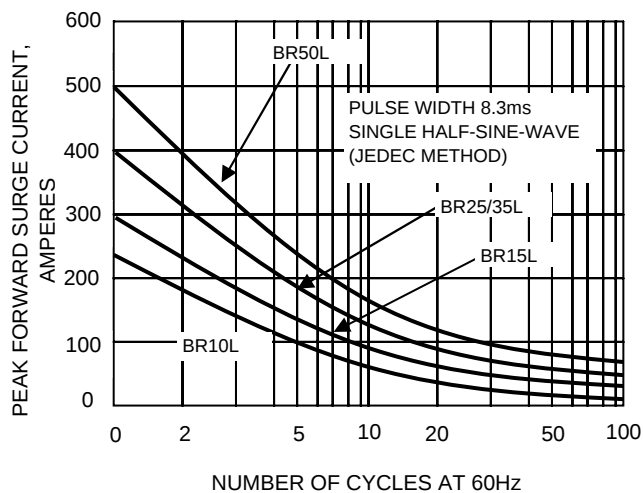


FIG.2- DERATING CURVE
OUTPUT RECTIFIED CURRENT

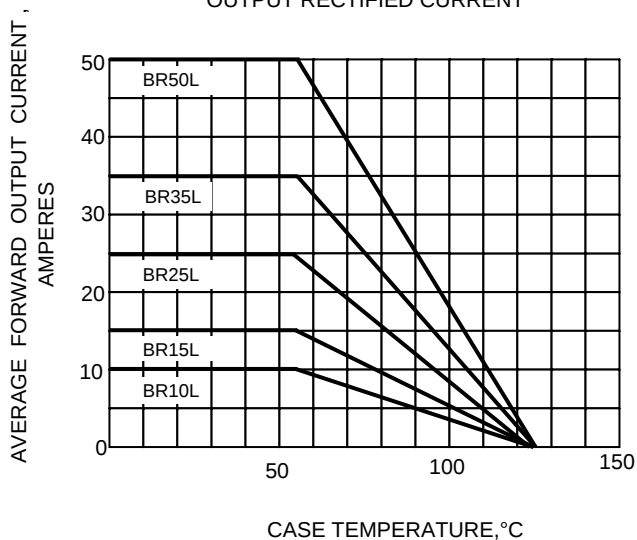


FIG.4-TYPICAL FORWARD CHARACTERISTICS

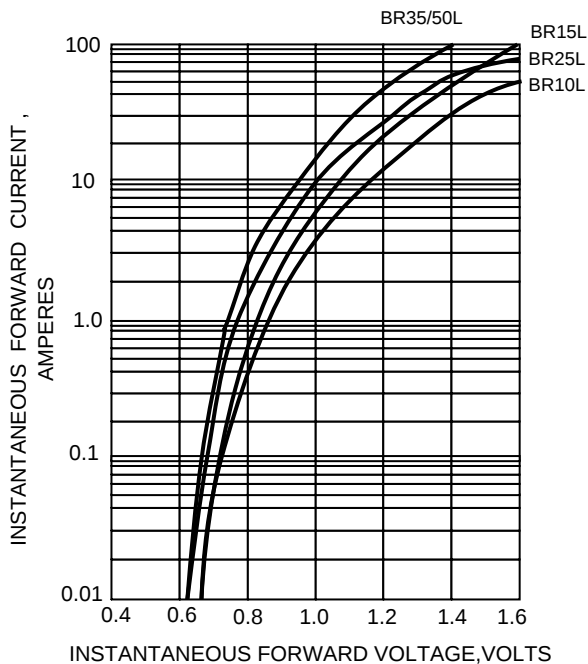


FIG.5-TYPICAL REVERSE CHARACTERISTICS

