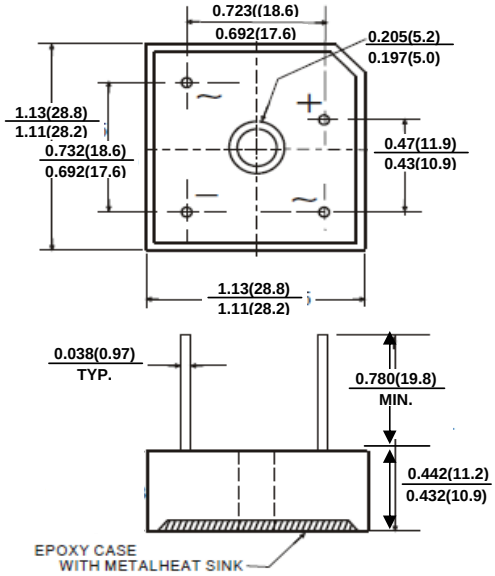
BR3505W THRU BR3510W

Single Phase 35.0 AMPS. Silicon Bridge Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 35.0 Ampere

BR-35W



Dimensions in inches and (millimeters)

FEATURES

- UL Recognized File#230084
- High surge forward current capability
- Plastic material has underwriters laboratory flammability classification 94V-0
- Mounting position:Any

MECHANICAL DATA

Case: Molded plastic
Terminals: Solderable per MIL-STD-750，Method 2026
Lead: solder plated
Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

PARAMETER	*SYMBOLS*	BR 3505W	BR 351W	BR 352W	BR 354W	BR 356W	BR 358W	BR 3510W	UNITS
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
Minimum DC Breakdown Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current With heatsink Tc =55°C	$I_{F(AV)}$	35							A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	400							A
Maximum Instantaneous Forward Voltage @ 17.5A	V_F	1.1							V
Maximum DC Reverse Current @ TA=25°C rated DC blocking voltage per leg TA = 125°C	I_R	10.0 500							μA
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1							°C/W
I^2t Rating for fusing 1ms≤t<8.3ms Tj=25℃，Rating of per diode	I^2t	660							A^2S
Mounting Torque (Note 2)	T_{OR}	20							kg·cm
Dielectric Strength at Terminals to case，AC 1 minute	V_{dis}	2.5							KV
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Note: 1.Between junction and case, With heatsink
2.Recommend torque：10kg•cm

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RATINGS AND CHARACTERISTIC CURVES

FIG. 1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

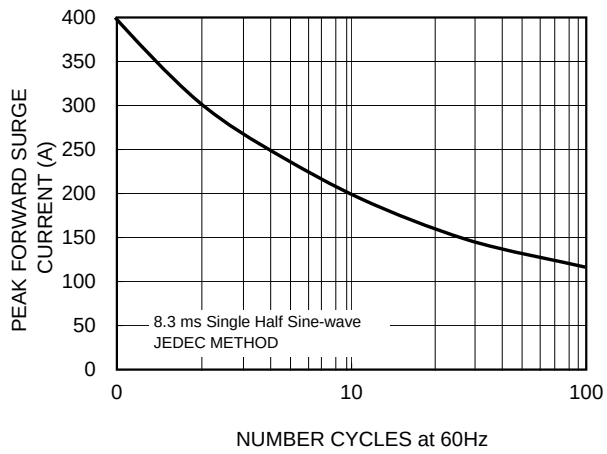

FIG. 2 MAXIMUM FORWARD CURRENT DERATING CURVE

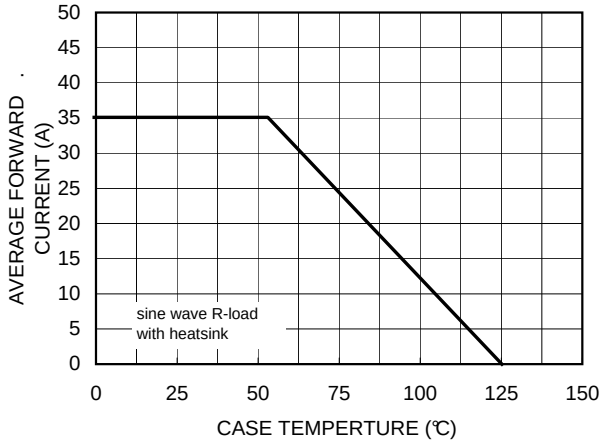

FIG. 3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

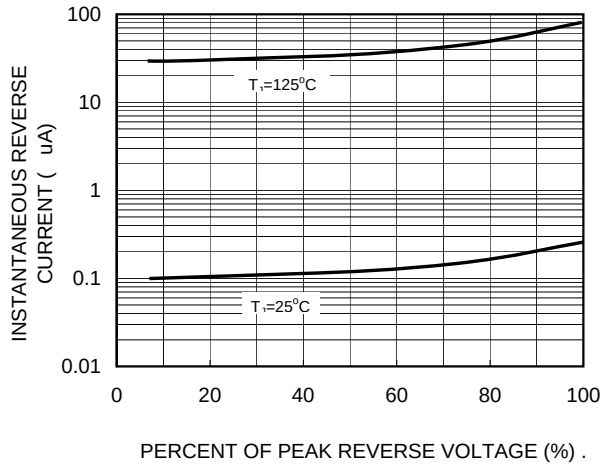

FIG. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT