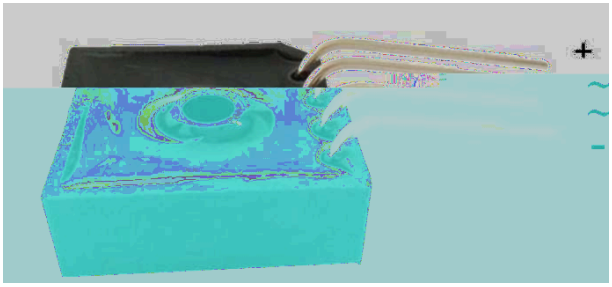
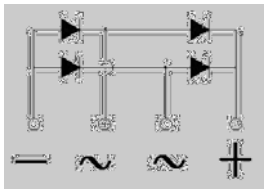
BR35005L THRU BR3510L





Typical Applications

General purpose use in AC/DC bridge full wave rectification for power supply, home appliances, office equipment, industrial automation applications.

Mechanical Data

- **Package**: BR-L
  Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant
- **Terminals**: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■Maximum Ratings (T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Device marking code			BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	V_{DC}	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, R-load, T_C =55	IO	A	35						
Forward Surge Current (Non-repetitive) @8.3ms, Half-sine wave,1 cycle, Tj=25	I_{FSM}	A	400						
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			800						
Current squared time @1ms≤t≤8.3ms Tj=25 , Rating of per diode	I^2t	A^2S	664						
Storage temperature	T_{stg}		-55 ~ +150						
Junction temperature	Tj		-55 ~ +150						
Dielectric strength @ Terminals to case, AC 1 minute	Vdis	KV	2.5						
Mounting torque @Recommend torque 5kg cm	Tor	kg cm	8						

■Electrical Characteristics T_a=25 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Maximum instantaneous forward voltage drop per diode	VF	V	I_{FM}=17.5A	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	I_R	μA	T_j=25	5						
			T_j=125	100						
Typical junction capacitance	Cj	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	145						

■Thermal Characteristics T_a=25 Unless otherwise specified

PARAMETER		SYMBOL	UNIT	BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Thermal Resistance	Between junction and case, With heatsink	$R_{\theta J-C}$	/W	2.1						

Note: Device mounted on 75mm x 45mm x 5.5mm Aluminum Plate Heatsink.

■Ordering Information (Example)

PREFERED P/N	PACKAGE CODE	UNIT WEIGHT (g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
BR35005L ~ BR3510L	A1	Approximate 17.1	60	60	600	Paper Box

■ Characteristics (Typical)

FIG1:Io-Tc Curve

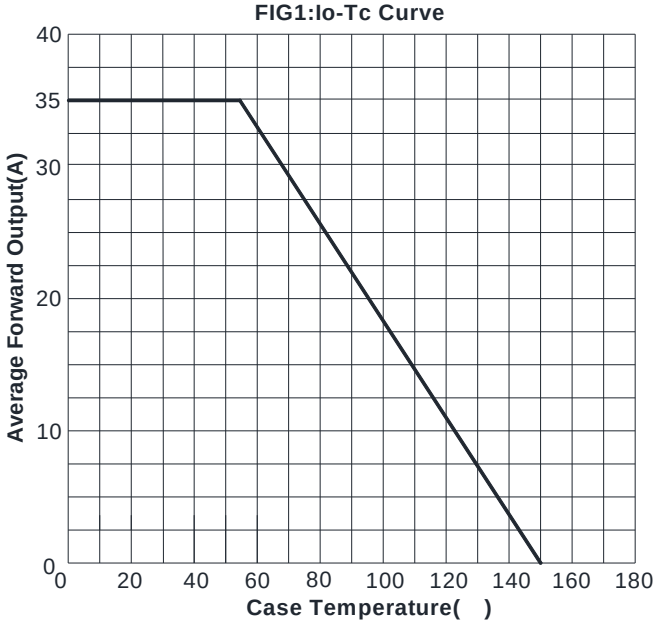
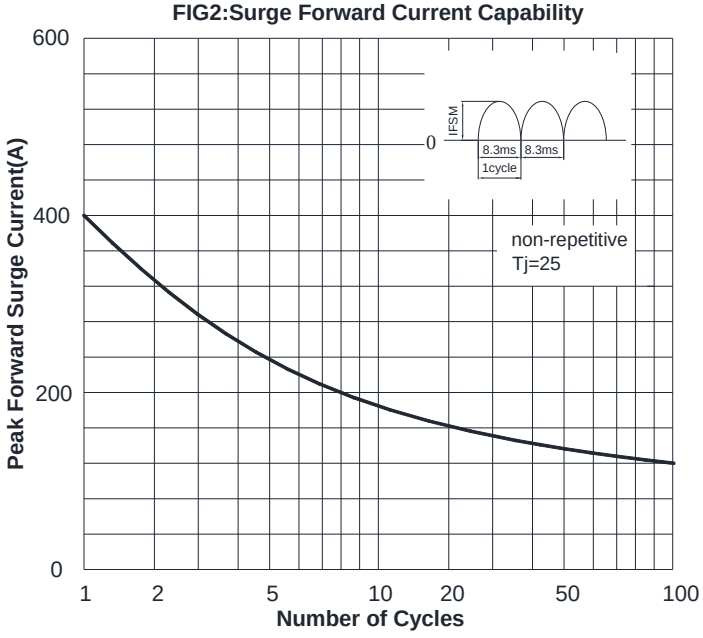
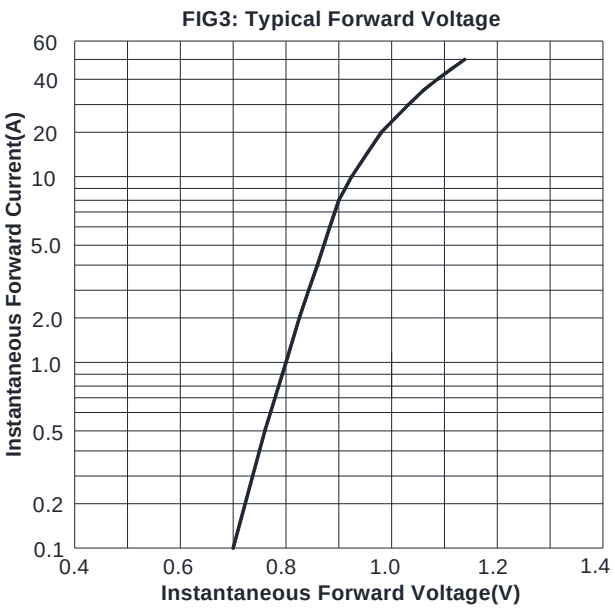
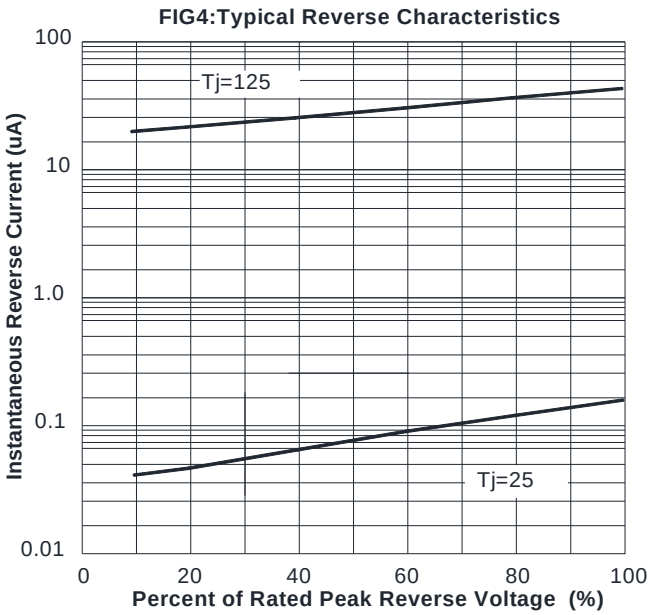


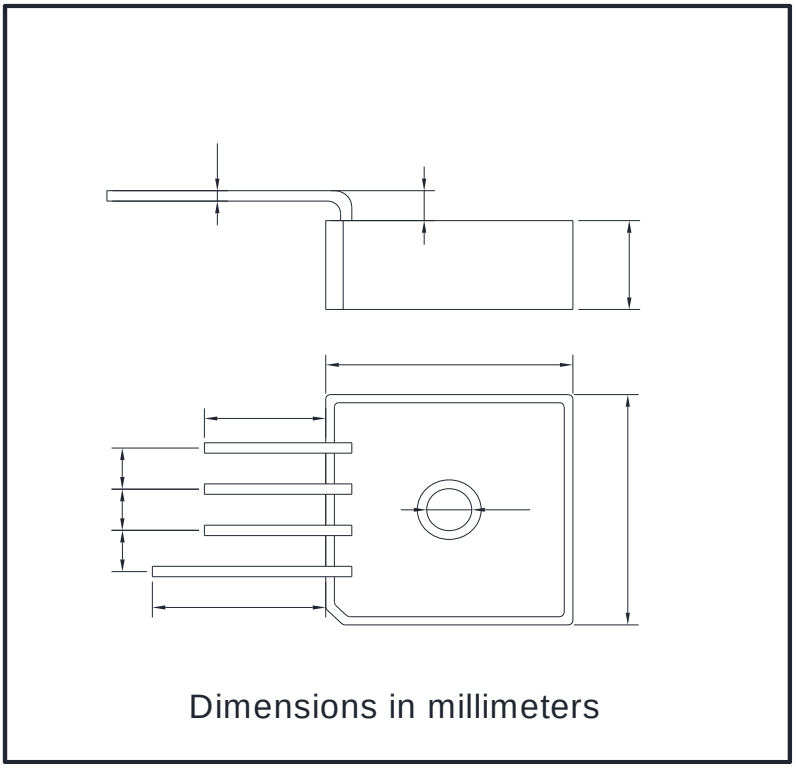
FIG2:Surge Forward Current Capability







■ Outline Dimensions



BR-L		
Dim	**Min**	**Max**
A	28.2	28.8
B	3.0	4.5
C	19.1	/
D	13.9	/
E	1.23	1.33
F	4.6	5.6
G	4.5	5.5
H	10.8	11.2

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