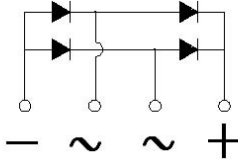


## Bridge Rectifiers



### Features

- UL recognition, file #E230084  
Universal 3-way terminals: snap-on, wire wrap-around, or PCB mounting
- 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 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 ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Device marking code			BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Average Rectified Output Current @60Hz sine wave, R-load, With heatsink, $T_c=55^\circ\text{C}$	$I_O$	A	35						
Surge(Non-repetitive)Forward Current @60HZ Half- sine Wave, 1 cycle, $T_a=25^\circ\text{C}$	IFSM	A	400						
Current Squared Time @1ms≤t≤8.3ms $T_j=25^\circ\text{C}$ , Rating of per diode	$I^2t$	A <sup>2</sup> S	660						
Storage Temperature	Tstg	°C	-55 ~+150						
Junction Temperature	$T_j$	°C	-55 ~+125						
Dielectric Strength, Terminals to case, AC 1 minute	$V_{dis}$	KV	2.5						
Mounting Torque	TOR	kg·cm	10						

### ■ Electrical Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	BR35005L	BR3501L	BR3502L	BR3504L	BR3506L	BR3508L	BR3510L
Maximum instantaneous forward voltage drop per diode	VFM	V	$I_{FM}=17.5A$	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IRRM	μA	$V_{RM}=V_{RRM}$	10						

### ■ Thermal Characteristics ( $T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	BR25005L	BR2501L	BR2502L	BR2504L	BR2506L	BR2508L	BR2510L
Thermal Resistance Between junction and case, With heatsink	$R_{\theta JC}$	°C/W	2.1						

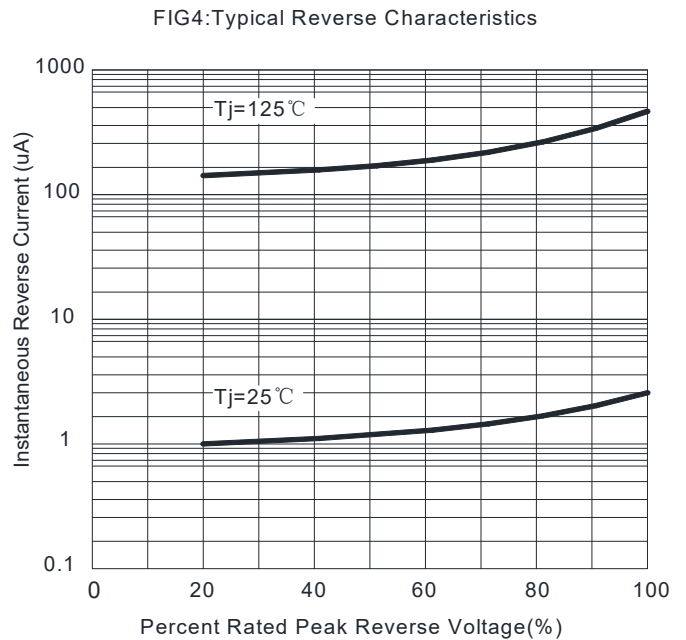
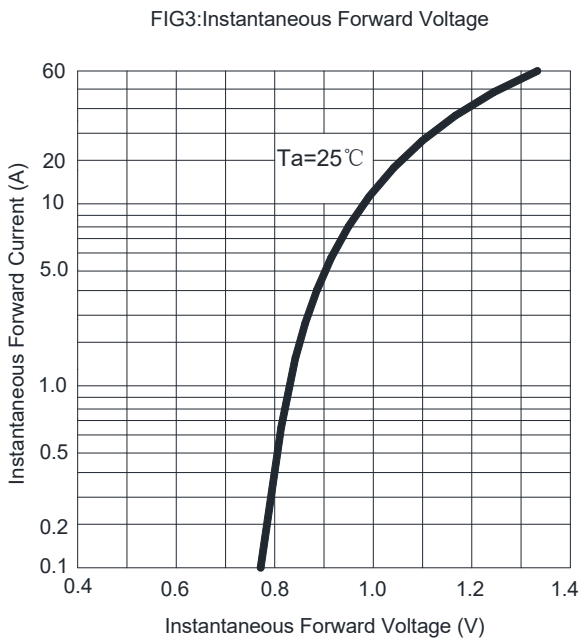
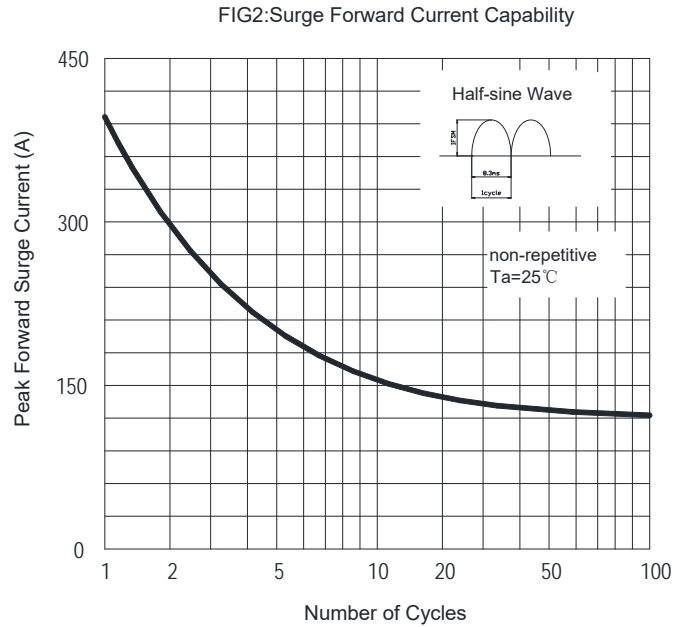
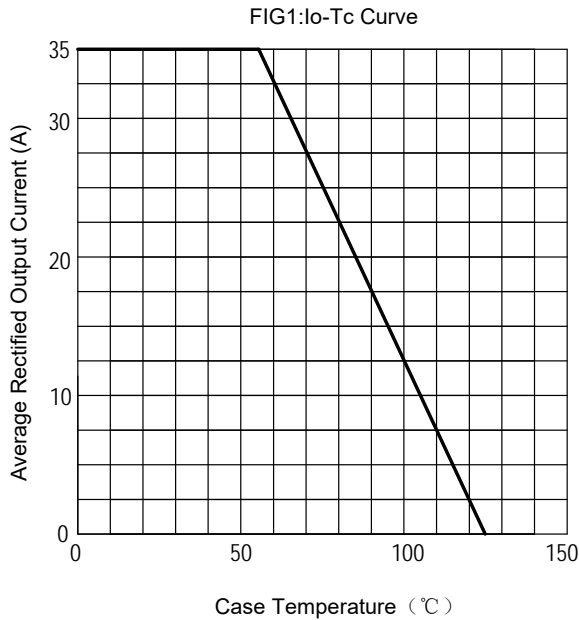


# BR35005L THRU BR3510L

## Ordering Information (Example)

PREFERRED 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

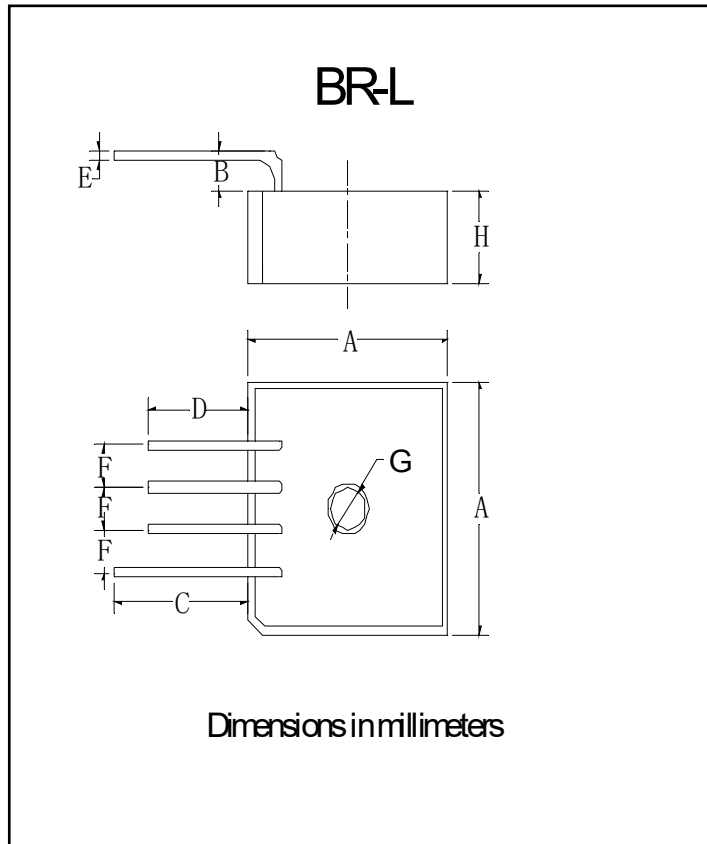
## Characteristics (Typical)





# BR35005L THRU BR3510L

## ■ Outline Dimensions



BR-L		
Dim	Min	Max
A	28.2	28.8
B	3.0	4.5
C	19.1	
D	13.9	
E	1.15	1.25
F	4.6	5.6
G	5	5.5
H	10.8	11.2



## BR35005L THRU BR3510L

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