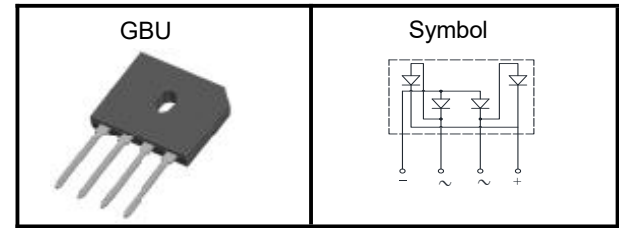


Low V_F Bridge Rectifier 600V Current 15A
Feature

- Low V_F
- High forward surge capability
- RoHS Compliant

Pin Description

Applications

- General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballast, etc.

$I_F(AV)$	15	A
V_{RRM}	600	V
$V_F(Typ)@I_F=7.5A, T_j=125^{\circ}C$	0.75	V

Absolute Maximum Ratings ($T_c=25^{\circ}C$ unless otherwise noted)

Parameter	Symbol	Limit	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_{DC}	600	V
RMS Reverse Voltage	V_{RMS}	420	v
Average Forward Rectified Current @ $T_c=100^{\circ}C$	$I_F(AV)$	15	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	220	A
I^2t rating for fusing ($t=8.3ms$)	I^2t	200.86	A^2S
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 To 150	$^{\circ}C$

Thermal Characteristic

Typical Thermal Resistance, Junction-to-Case (with heatsink)	$R_{\theta JC}$	3.0	$^{\circ}C/W$
Typical Thermal Resistance, Junction-to-Ambient (with heatsink)	$R_{\theta JA}$	8.0	$^{\circ}C/W$
Typical Thermal Resistance, Junction-to-Lead (with heatsink)	$R_{\theta JL}$	3.0	$^{\circ}C/W$

**Low V_F Bridge Rectifier 600V Current 15A****Electrical Characteristics ($T_C=25^{\circ}\text{C}$ unless otherwise noted)**

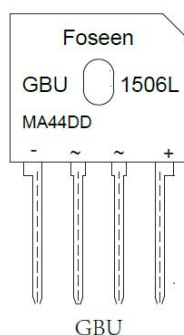
Parameter	Symbol	Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage	V_{RRM}	$I_R=-100\mu\text{A}$	600	-	-	V
Forward Voltage Drop	V_F	$I_F=7.5\text{A}, T_J=25^{\circ}\text{C}$	-	0.88	0.92	V
		$I_F=7.5\text{A}, T_J=125^{\circ}\text{C}$	-	0.75	-	V
Forward Voltage Drop	V_F	$I_F=15\text{A}, T_J=25^{\circ}\text{C}$	-	0.94	-	V
		$I_F=15\text{A}, T_J=125^{\circ}\text{C}$	-	0.81	-	V
Reverse Leakage Current	I_R	$V_R=600\text{V}, T_J=25^{\circ}\text{C}$	-	-	5	μA
		$V_R=600\text{V}, T_J=125^{\circ}\text{C}$	-	-	500	μA

Marking Information

Logo

Model name

Marking

**Marking**

X X X X X X

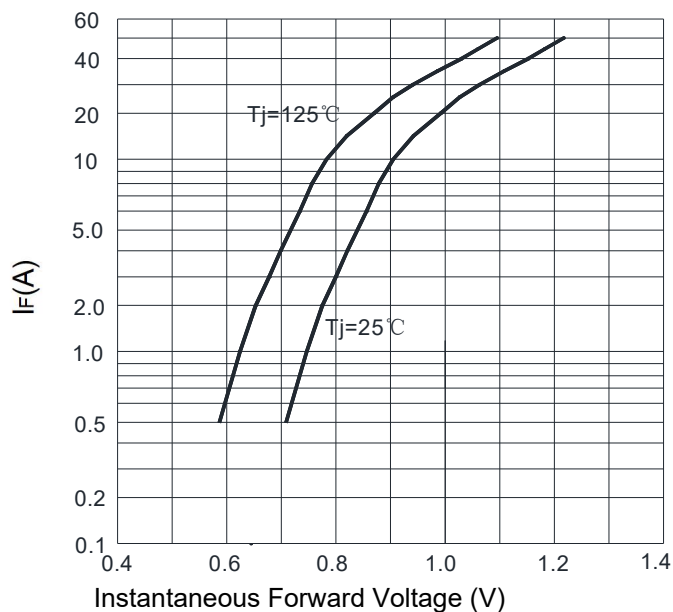
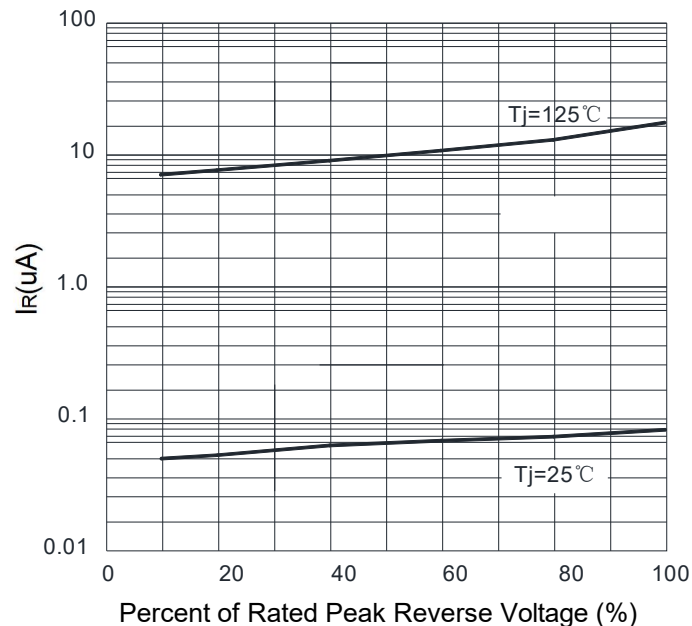
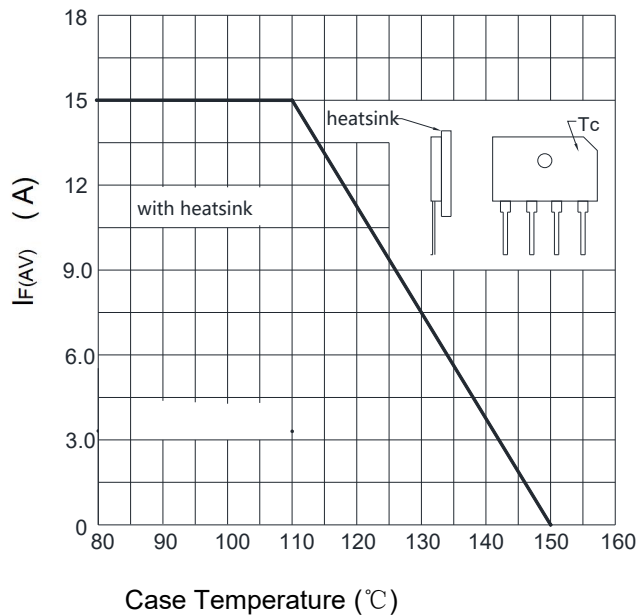
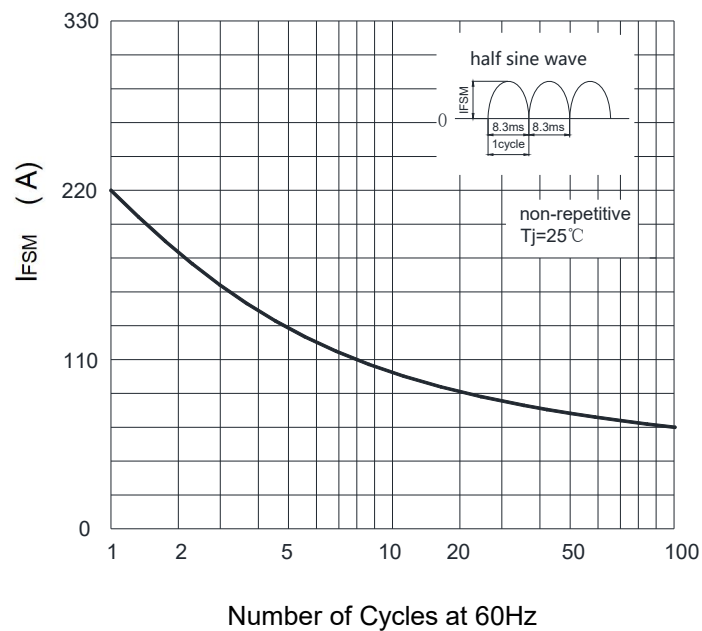
Assembly code

Week (1→第一周)

Month-code 1→1月, 2→2.....O→10, N→11, D→12

Year -code A→2025, B→2026, C→2027

M→无铅, G→无卤

ELECTRICAL CHARACTERISTICS(curves)
Fig 1. Typical Forward Characteristics

Fig 2. Typical Reverse Characteristics

Fig 3. Forward Current Derating Curve

Fig 4. Non-repetitive Forward Surge Current


GBU Package Outline Dimensions

