

Low V_F Bridge Rectifier 600V Current 25A

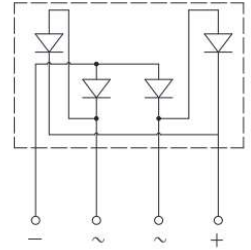
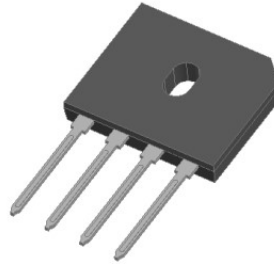
FEATURES AND BENEFITS

- Low V_F
- High forward surge current capability
- Ideal for printed circuit boards
- Lead free in compliance with EU Rohs2.0

MECHANICAL DATA

- Epoxy: UL94 V-0 rated flame retardant
- Case: GBU Package
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Weight:

Primary Characteristic	
I_o	25A
V_{RRM}	600V
I_{FSM}	300A
V_F Typical= $12.5A$ $T_J = 125^\circ C$	0.76V
T_{jmax}	150°C



Maximum Ratings ($T_a=25^\circ C$ unless otherwise specified)			
Characteristics	Symbol	Value	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
Maximum Average Forward Current	$I_{F(AV)}$	25	Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load @ $T_a=25^\circ C$	I_{FSM}	300	Amps

Electrical Characteristics ($T_a=25^\circ C$ unless otherwise specified)						
Characteristics			Symbol	Typ.	Max.	Unit
Forward Voltage Drop ⁽¹⁾	$I_F=1A$	$T_a=25^\circ C$	V_F	0.75		V
	$I_F=12.5A$	$T_a=25^\circ C$	V_F	0.85	0.92	V
	$I_F=1A$	$T_a=125^\circ C$	V_F	0.58		V
	$I_F=12.5A$	$T_a=125^\circ C$	V_F	0.76		V
Reverse Current ⁽²⁾	$V_R=600V$	$T_a=25^\circ C$	I_R	0.05	10	μA
	$V_R=600V$	$T_a=125^\circ C$	I_R	500		μA

Notes (1): Pulse test: 300 μs pulse width, 1% duty cycle,

Notes (2): Pulse width $\leq 40ms$

THERMAL CHARACTERISTICS ($T_A = 25^\circ C$ unless otherwise noted)			
Characteristics	Symbol	Value	Unit
Typical Thermal Resistance, junction to Lead	$R_{\theta JC}$	2	$^\circ C/W$
Operating Temperature Range (in DC Mode)	T_J	-65 to +150	$^\circ C$
Storage Temperature Range	T_{STG}	-65 to +150	$^\circ C$

Notes (3): FR-4 PCB, 2oz copper. Minimum recommended pad layout

RATINGS AND CHARACTERISTICS CURVES

Fig 1. Typical Forward Characteristics

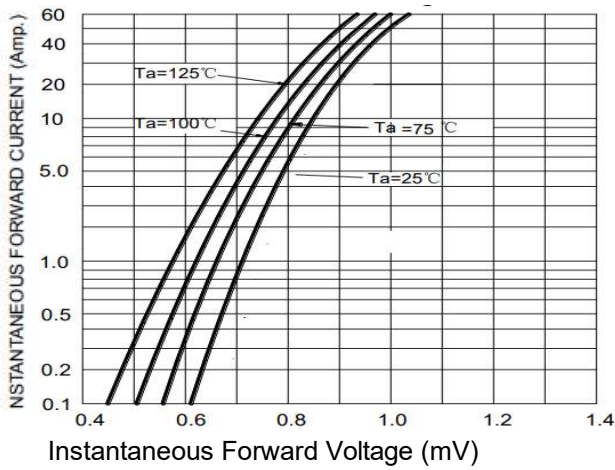


Fig 2. Typical Reverse Characteristics

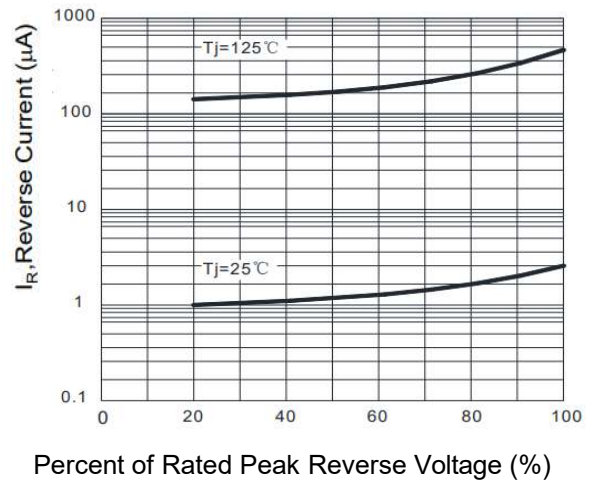


Fig 3. Forward Current Derating Curve

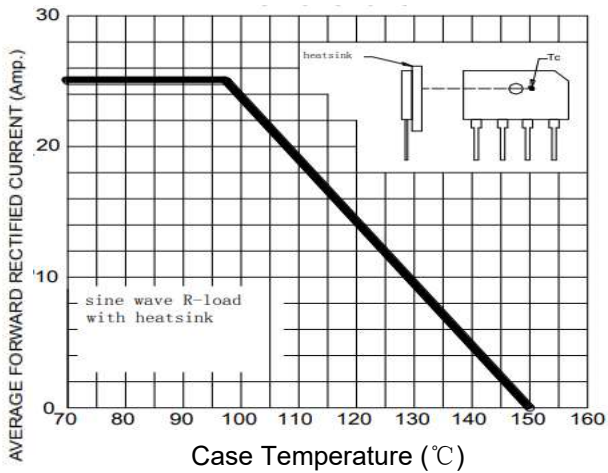
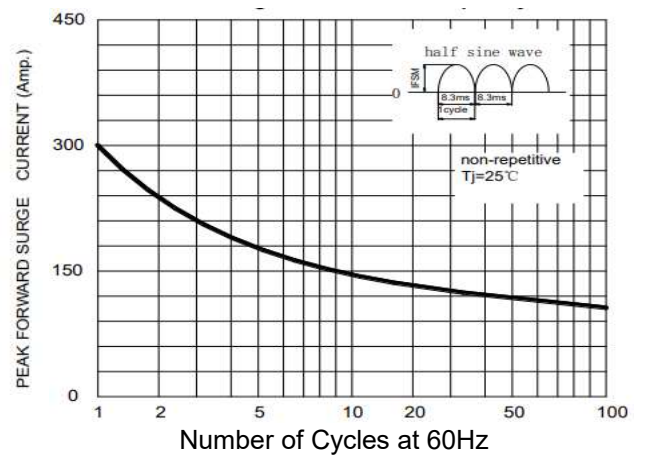
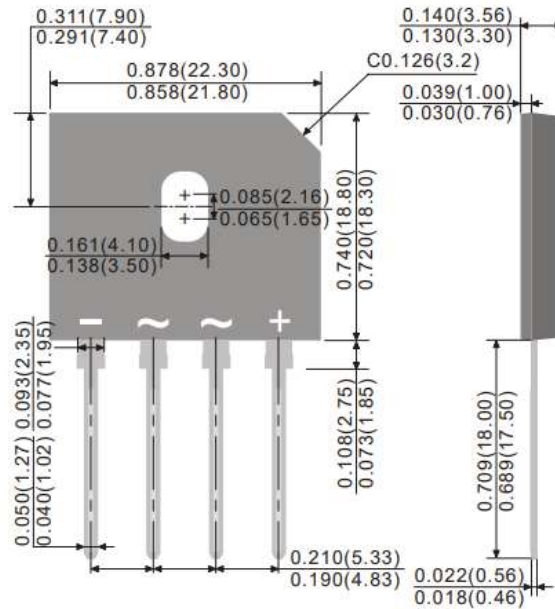


Fig 4. Non-repetitive Forward Surge Current

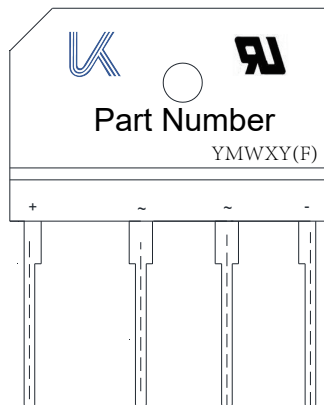


Package Outline Dimensions (in millimeters)



Marking Information

Series Name 康虹=
Part Number Marking Code=



=Product Tracking Code