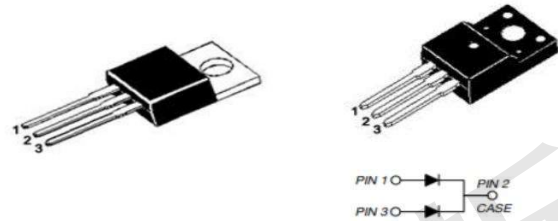


FEATURES

- Low power loss, high efficiency operation
- Low forward voltage drop
- Fast switching capability
- High forward surge capability
- Excellent High Temperature Stability

MECHANICAL DATA

- Epoxy: UL94 V-0 rated flame retardant
- Case: TO-220AB / ITO-220AB Package
- Terminals: Matte Tin annealed over copper
- Weight: Approximated 2.00 grams&1.70 grams



Primary Characteristic	
I_O	2X15A
V_{RRM}	100V
I_{FSM}	350A
V_F Typical=3A, $T_J=125^\circ\text{C}$	0.37V
T_{Jmax}	150°C

Maximum Ratings (Ta=25°C unless otherwise specified)						
Characteristics			Symbol	Value		Unit
Peak Repetitive Reverse Voltage			VRRM	100		V
Working Peak Reverse Voltage			VRWM	100		V
DC Blocking Voltage			VDC	100		V
RMS Reverse Voltage			VRMS	70		V
Average Forward Rectified Current (per diode)			Io	15		Amps
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)			IFSM	350		Amps
Electrical Characteristics (Ta=25°C unless otherwise specified)						
Characteristics			Symbol	Typ.	Max.	Unit
Forward Voltage Drop	IF=3A	Ta=25°C	VF	0.45		V
	IF=15A	Ta=25°C	VF	0.67	0.72	V
	IF=3A	Ta=125°C	VF	0.37		V
	IF=15A	Ta=125°C	VF	0.62		V
Reverse Current	VR=100V	Ta=25°C	IR	15	50	µA
	VR=100V	Ta=125°C	IR	15		mA

THERMAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)				
Characteristics		Symbol	Value	Unit
Typical Thermal Resistance, junction to case	TO-220AB	$R_{\theta JC}$	2.8	$^\circ\text{C/W}$
Typical Thermal Resistance, junction to case	ITO-220AB	$R_{\theta JC}$	4.0	$^\circ\text{C/W}$
Operating Temperature Range (in DC Mode)		T_J	-65 to +150	$^\circ\text{C}$
Storage Temperature Range		T_{STG}	-65 to +150	$^\circ\text{C}$

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

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

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

RATINGS AND CHARACTERISTICS CURVES

Fig 1. Typical Forward Characteristics

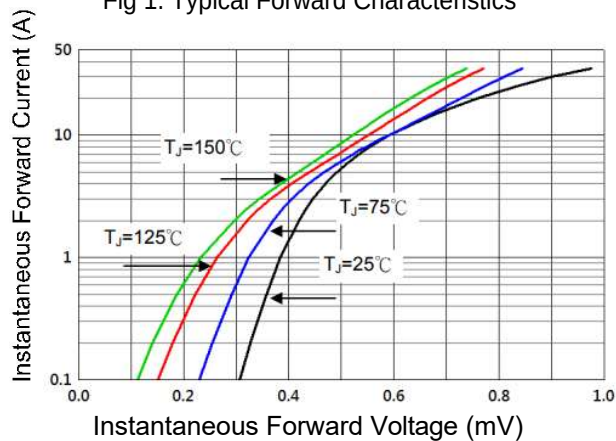


Fig 2. Typical Reverse Characteristics

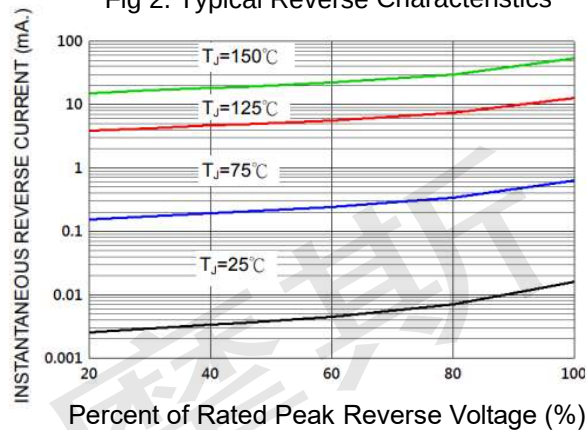


Fig 3. Forward Current Derating Curve

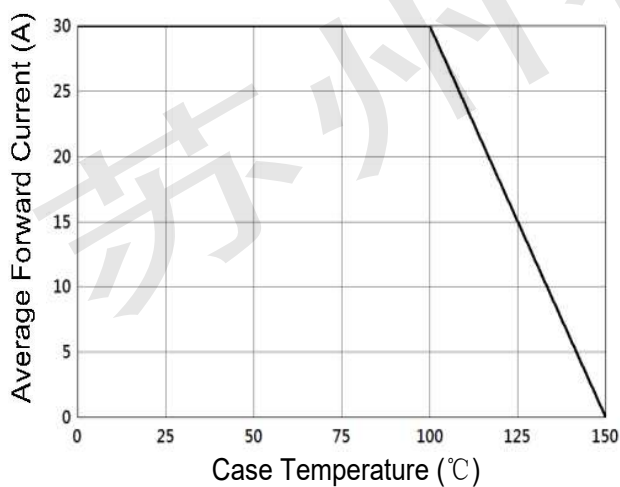


Fig 4. Non-repetitive Forward Surge Current

