

VOLTAGE RANGE: 150V

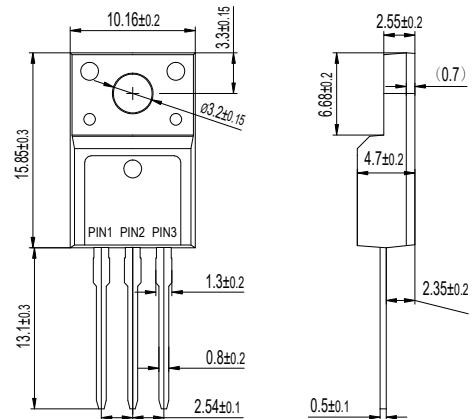
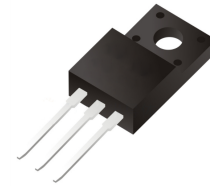
CURRENT: 30A

Features

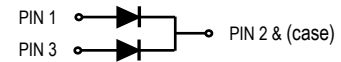
- Ultra low vf
- High efficiency operation
- Low power loss
- Low stored charge majority carrier conduction
- High forward surge capability
- Lead free in compliance with EU RoHS 2011/65/EU directive

Mechanical Data

- Circuit figure: Common cathode
- Leads: Solderable per mil-std-202, Method 208
- Polarity: as marked
- Mounting torque: 5 in-lbs maximum
- Terminals: Puretin plated
- Weight: ITO-220AB 1.70 grams



ITO-220AB



Maximum Ratings $T_A = 25^\circ\text{C}$ unless otherwise specified

RATINGS	SYMBOL	MBR30L150CT	UNIT
Maximum repetitive reverse voltage	VRRM	150	V
Maximum RMS voltage	VRMS	105	V
Maximum DC blocking voltage	VDC	150	V
Maximum average forward current per device per diode	I _{AV}	30 15	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	300	A
Typical thermal resistance per diode (Note 1)	R _{θ-JC}	4.5	°C/W
Operating junction temperature range	T _J	-55 to +150	°C
Storage temperature range	T _{STG}	-55 to +150	°C

Notes: 1. Thermal resistance from junction to case.



Electrical Characteristics T_A = 25°C unless otherwise specified

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	V _{BR}	I _R =0.5mA	150	-	-	V
Instantaneous forward voltage per diode	V _F	I _F =15A T _J =25°C	-	0.85	0.89	V
		I _F =15A T _J =125°C	-	-	0.76	V
Reverse current per diode	I _R	V _R =150V T _J =25°C	-	-	50	μA
		V _R =150V T _J =125°C	-	-	25	mA

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

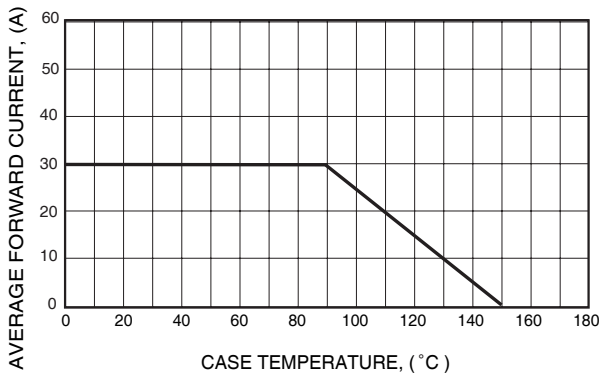


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

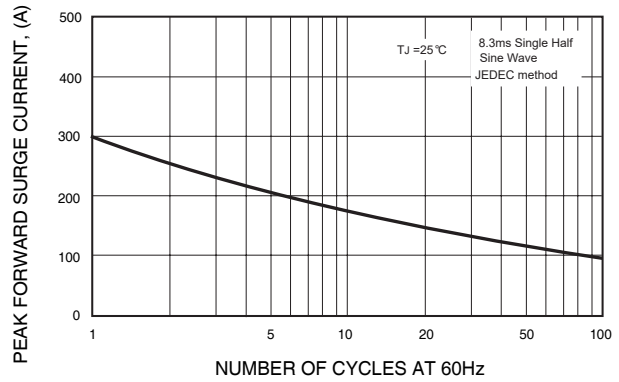


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

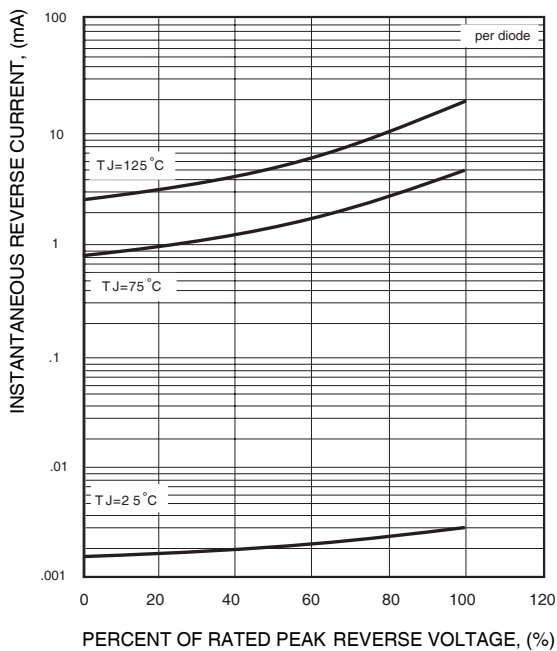


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

