

VOLTAGE RANGE

300 Volts

CURRENT

30.0 Ampere

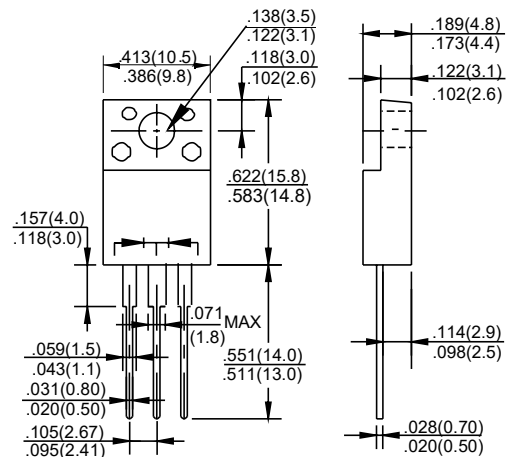
Features

- . Low Forward Voltage Drop
- . Excellent High Temperature Stability
- . Excellent Barrier Rectifier Technology
- . Soft, Fast Switching Capability

Mechanical Data

- . Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- . Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208

ITO-220AB



Maximum Ratings (TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	MBR30300FCT	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	300	V
Maximum RMS voltage	V_{RMS}	210	V
Maximum DC blocking voltage	V_{DC}	300	V
Maximum average forward rectified current (Total) (Per Leg)	I_F	30 15	A
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	180	A
Maximum Instantaneous Forward Voltage $I_F=15A @ 25^\circ C$	V_F	0.95	V
Maximum DC Reverse Current @ TA=25°C at Rated DC Blocking Voltage @ TA=125°C	I_R	0.05 10	mA
Typical Thermal Resistance	$R_{\theta JC}$	3.8	°C/W
Operating Temperature Range	T_J	-55 to +150	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0V DC

The typical data above is for reference only (典型值仅供参考).

RATING AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

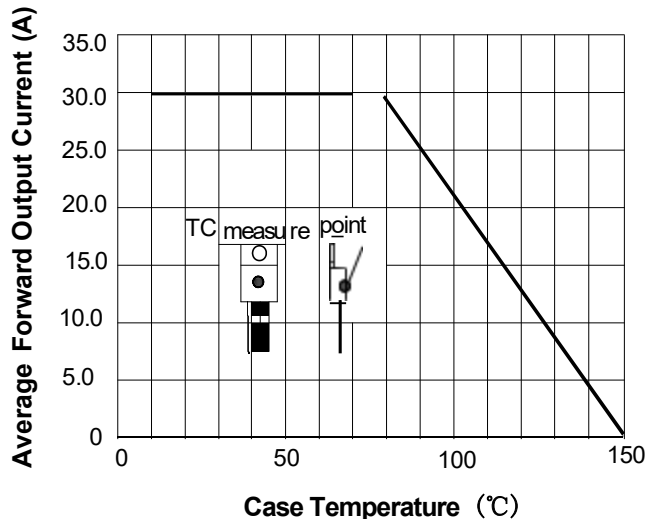


FIG. 3-Maximum Non-Repetitive Forward Surge Current

FIG2: Surge Forward Current Capability

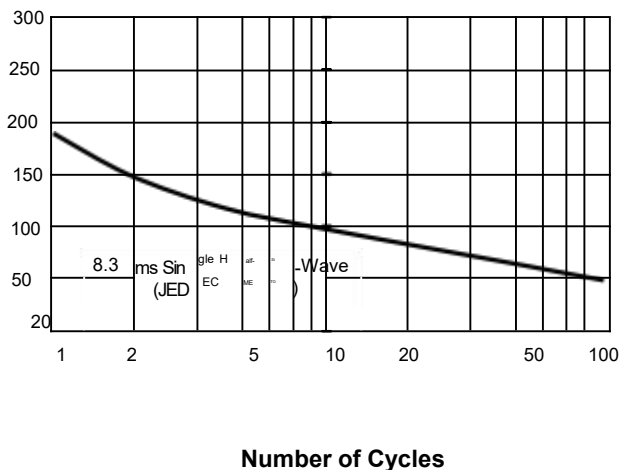


FIG3: Forward Voltage

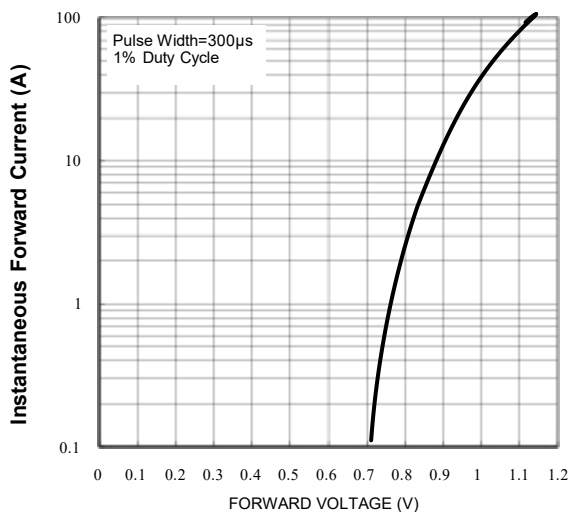
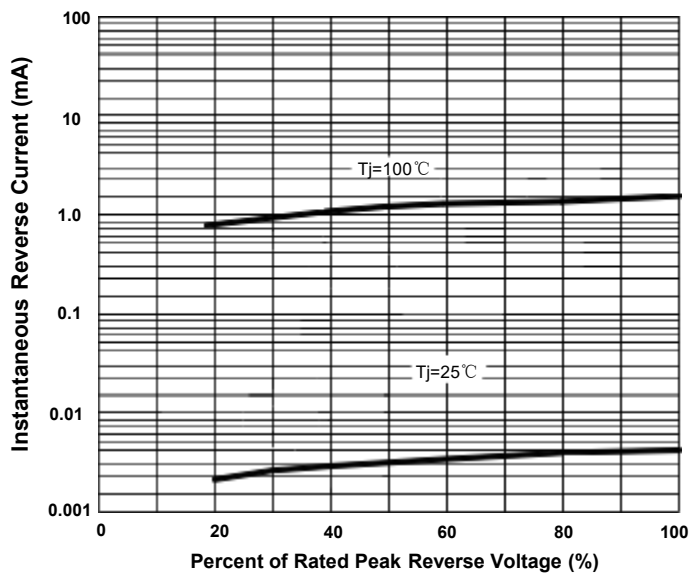


FIG.4: Instantaneous Reverse Characteristics



The curve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!