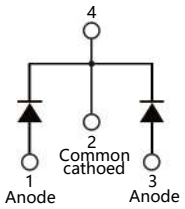
MBR10300F/MBR10300A/MBR10300E

10A SCHOTTKY BARRIER RECTITIEF

■ PRODUCT CHARACTERISTICS

V_R@I_C =0.5mA	300V
V_F (Typ@I_F =5A)	0.82V
I_R(@V_R =300V)	50uA
I_D	10A

Symbol



■ APPLICATION

Case epoxy molded

Leds are readily solderable

■ FEATURES

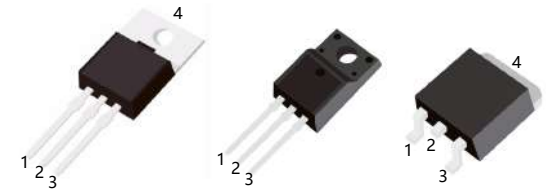
Guard ring for stress protection

Low forward voltage

Low power loss high efficiency

High surge capacity

Pb free packages are available



■ ORDER INFORMATION

Order codes		Package	Packing
Halogen-free	Halogen		
N/A	MBR10300F	TO-220F	50pieces/Tube
N/A	MBR10300A	TO-220	50pieces/Tube
N/A	MBR10300E	TO-263	800pieces/Reel

■ MAXIMUM RATINGS(Each diode leg)

Parameter		Symbol	Value	Unit
Peak repetitive reverse voltage		V_R	300	V
Average rectified output current	Total	I_D	10	A
	Pre leg		5	A
Non-repetitive peak forward surge current 8.3ms single half sine-wave superimposed on reate loda		I_{FSM}	150	A
Operationg and storage temperature range		T_J ,T_{STG}	-55 to 175	℃

■ ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Peak repetitive reverse voltage	V_R	I_C=0.5mA ,T_J=25℃	300	-	-	V
Forward voltage drop	V_F	I_F=5A ,T_J=25℃	-	0.82	0.86	V
Leakage current	I_R	V_R=300V,T_J=25℃	-	-	0.05	mA
		V_R=300V,T_J=125℃	-	-	6	mA

■ TYPICAL CHARACTERISTICS

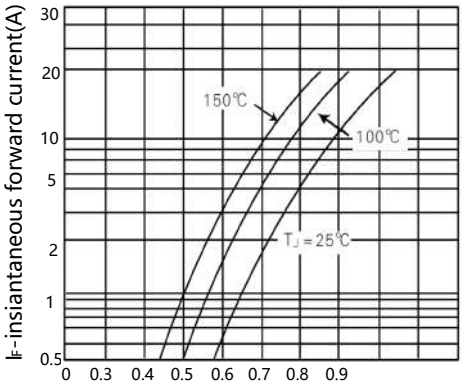


Figure 2 typical forward voltage per diode

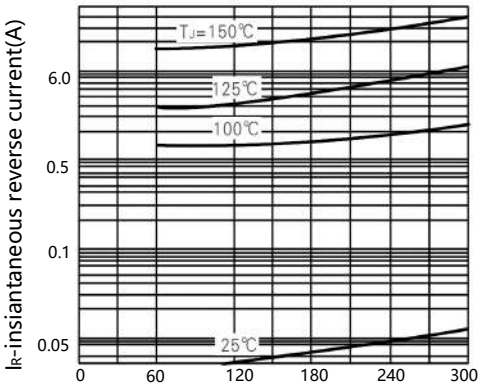


Figure 2 typical reverse current per diode

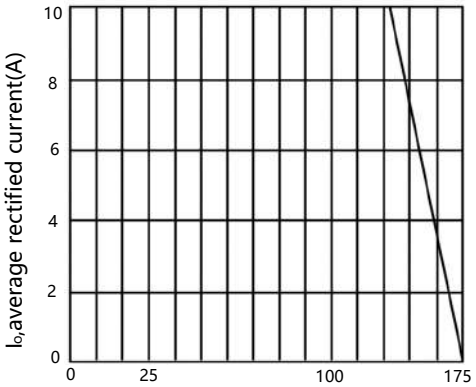


Figure 3 forward current derating curve

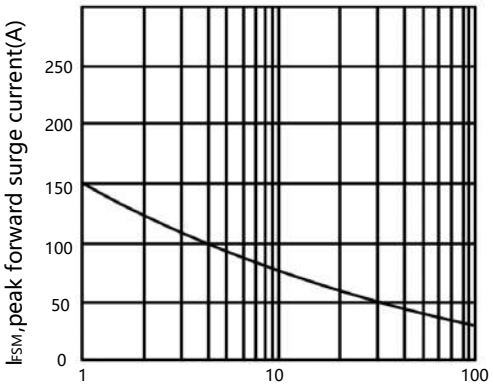
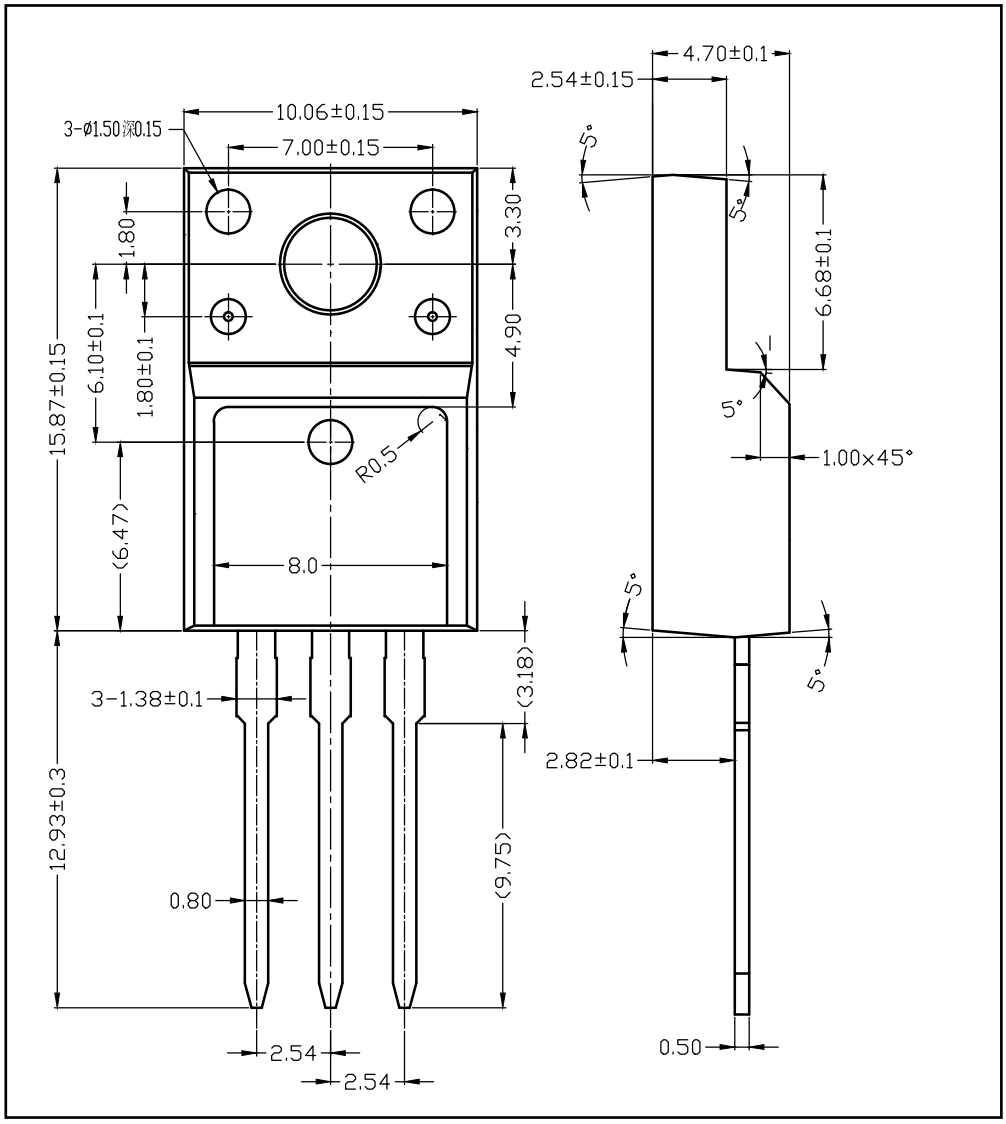
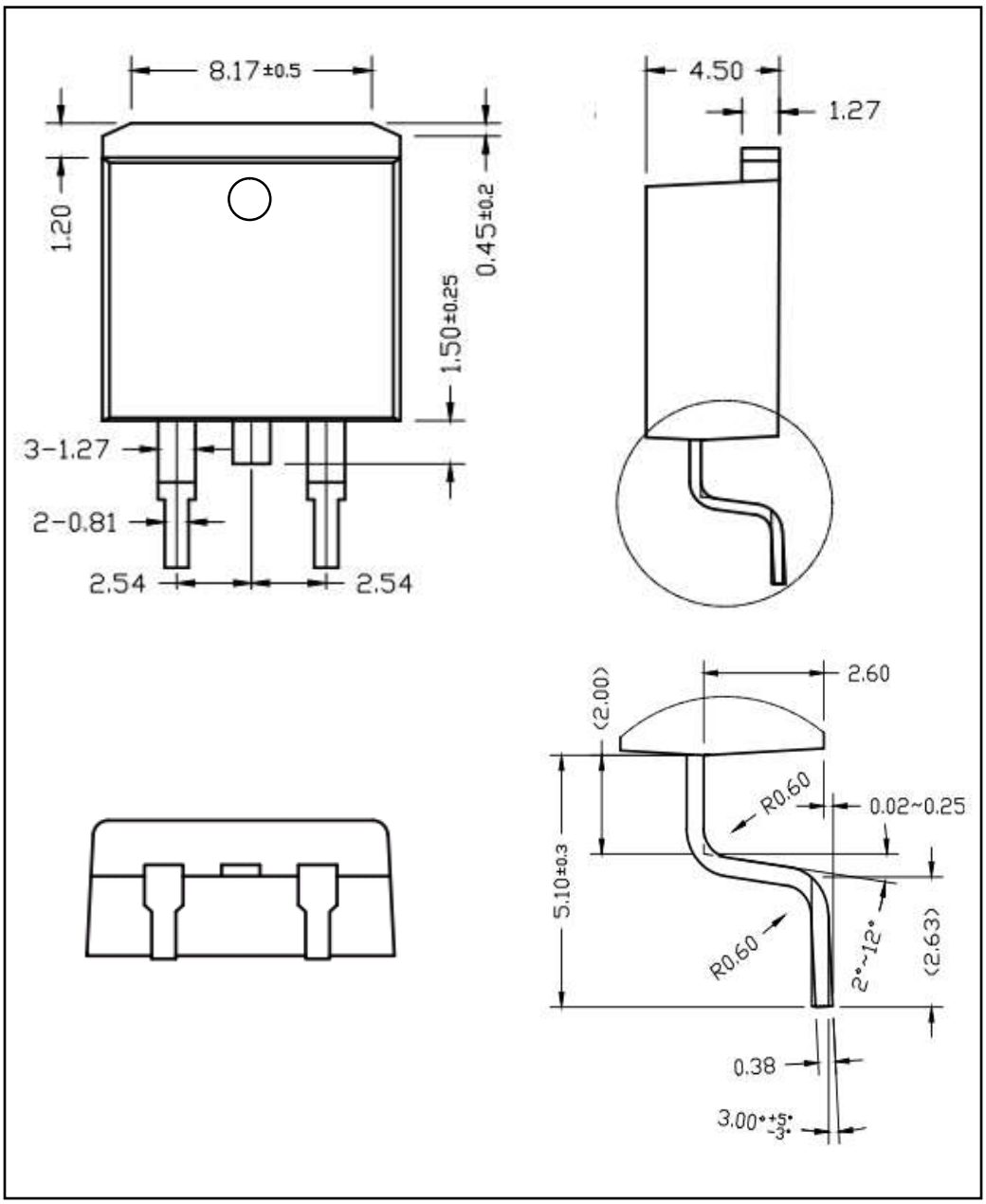


Figure 4 max non-repetitive surge current

■ TO-220F-3L PACKAGE OUTLINE DIMENSIONS



■ TO-263-2L PACKAGE OUTLINE DIMENSIONS



■ TO-220-3L PACKAGE OUTLINE DIMENSIONS