

Low VF Schottky Barrier Rectifiers

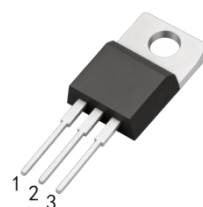
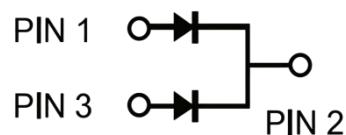
Parameter	Value	Unit
V_{RRM}	80	V
$I_{F(AV)}$	30(15*2)	A

Features

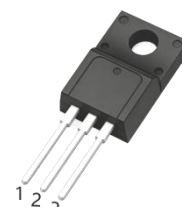
- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection

Applications

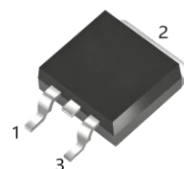
- Power adapters
- Lighting equipment
- On-board DC/DC converters



TO-220AB/CT



TO-220F/FCT



TO-263/DC

Absolute Maximum Ratings(Per Leg) (Ta=25°C,unless otherwise noted)

Parameter		Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	80	V
Working Peak Reverse Voltage		V_{RWM}	80	V
Maximum DC Blocking Voltage		V_{DC}	80	V
Maximum Average Forward Rectified Current	Per Leg	$I_{F(AV)}$	15	A
	Total		30	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	260	A
Operating Temperature Range		T_J	-50 to +150	°C
Storage Temperature Range		T_{STG}	-50 to +150	°C
Typical Thermal Resistance		$R_{\theta JC}$	2.0	°C/W
TO-220AB,TO-263				
TO-220F				

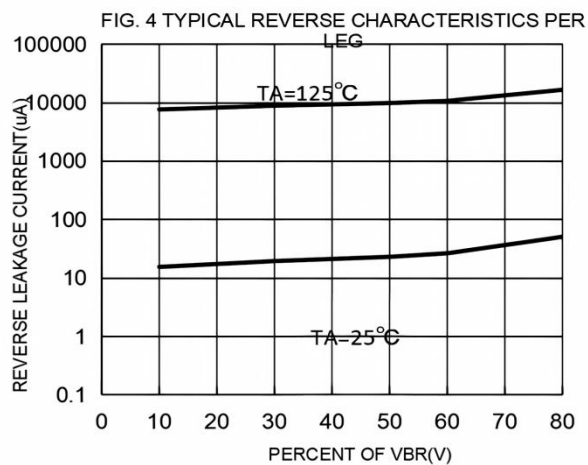
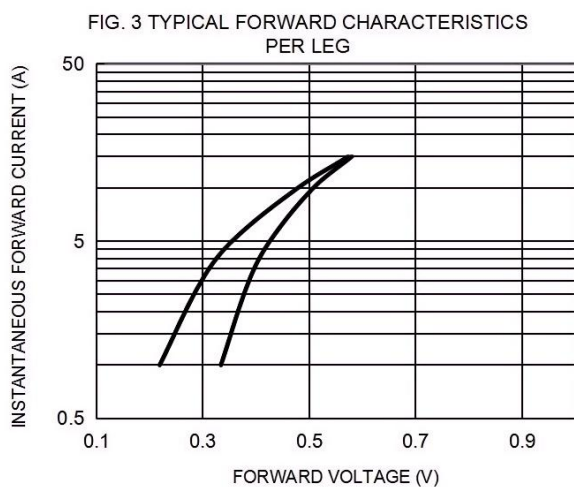
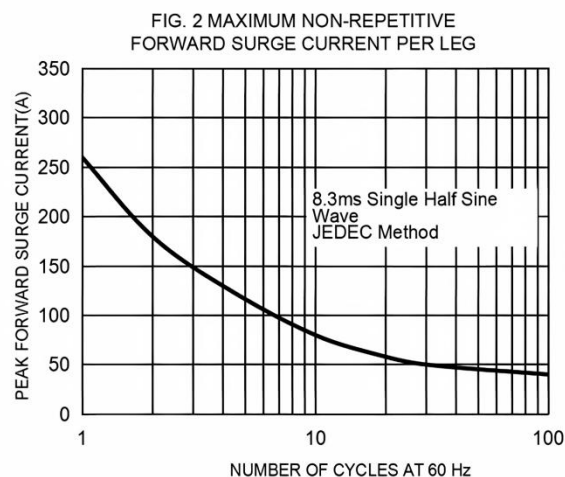
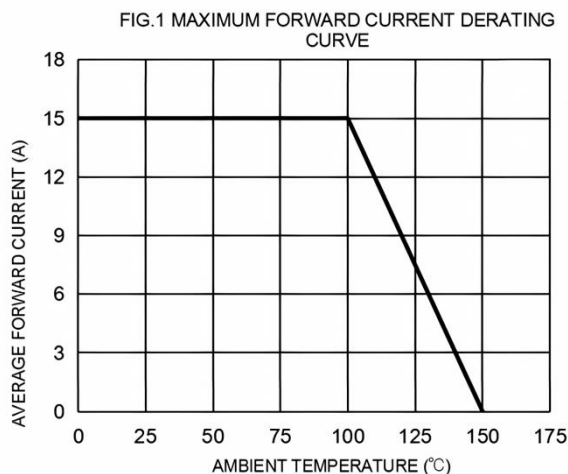
Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

Parameter		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V_F	Typ.	Max.	V
at $I_F=15A$	$T_A=25^{\circ}C$		0.58	0.68	
	$T_A=125^{\circ}C$		0.58	-	
Maximum Reverse Current at $V_R=80V$	$T_A=25^{\circ}C$	I_R	50.75	70	μA
	$T_A=125^{\circ}C$		16.6	-	mA

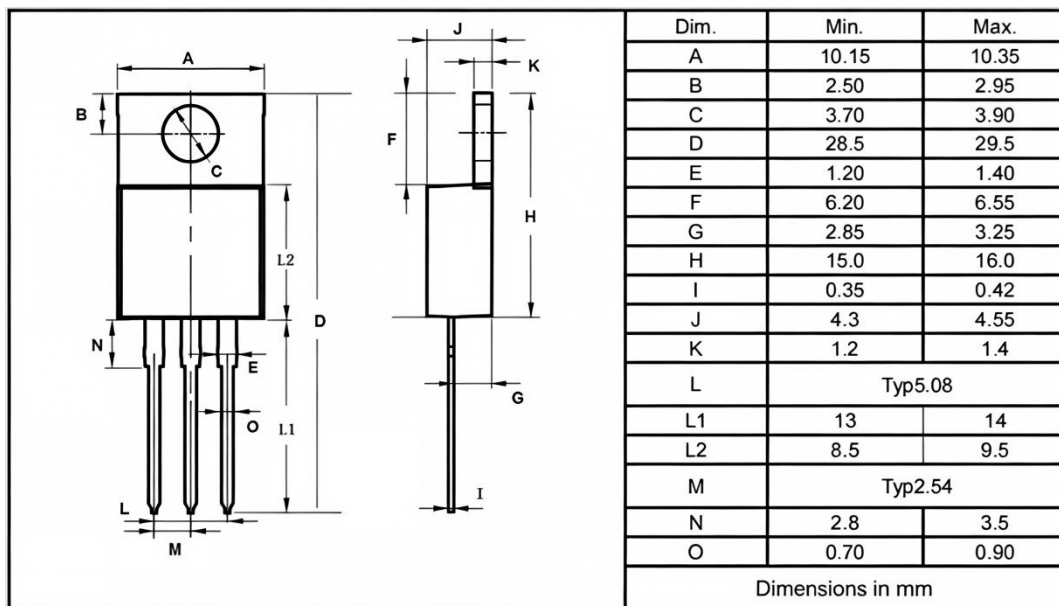
Note2:Pulse test: 300 μ s pulse width, 1% duty cycle

Typical Characteristics

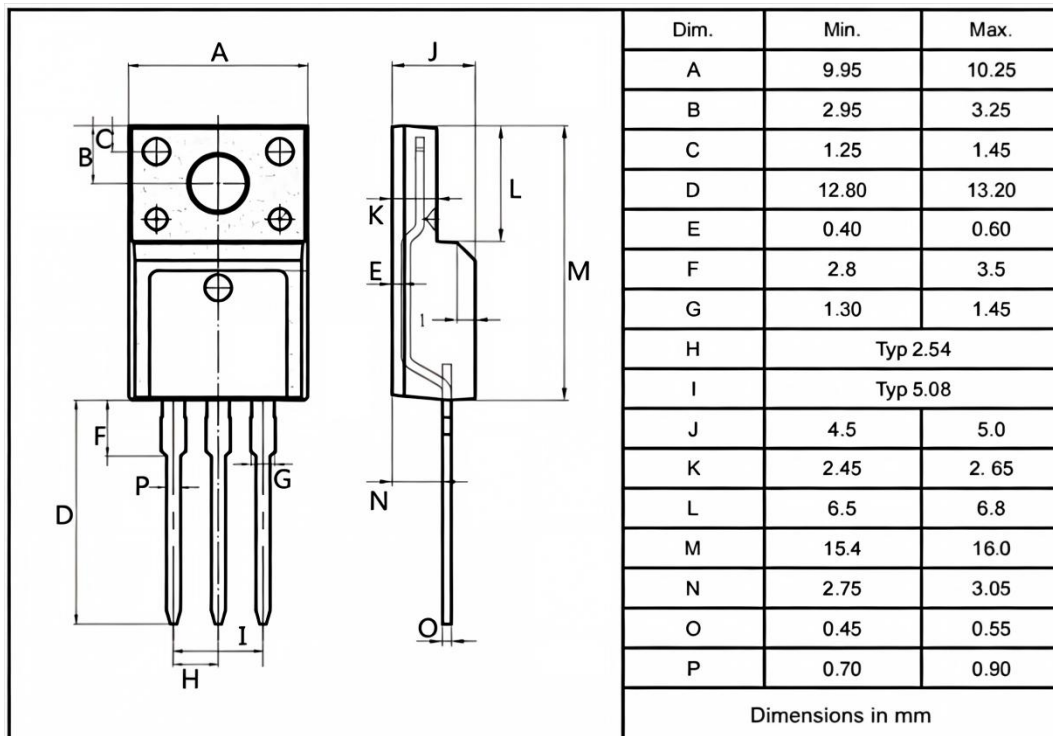


Package Outlines

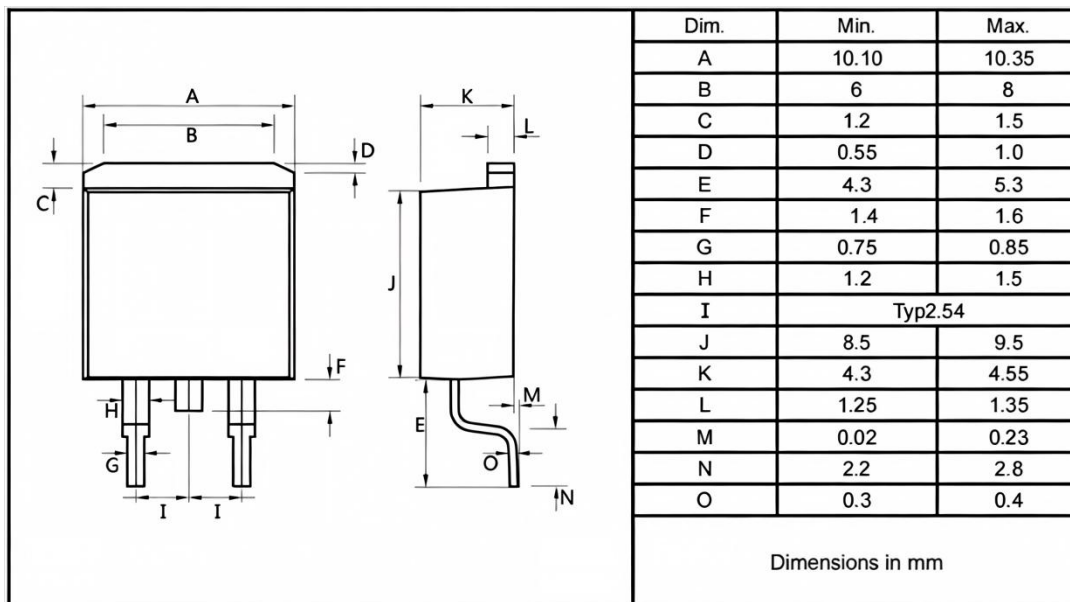
TO-220AB



TO-220F



TO-263



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