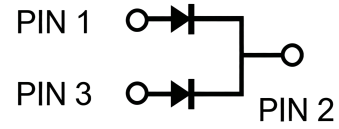


Ultrafast Recovery Rectifiers

Parameter	Value	Unit
V_{RRM}	200	V
$I_{F(AV)}$	30(2*15)	A

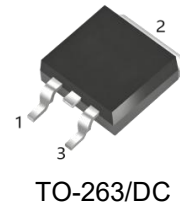
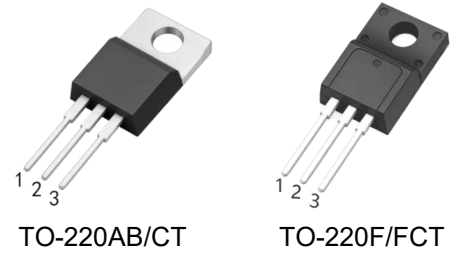


Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability

Applications

- Typical applications are in switching power supplies, converters, freewheeling diodes, and reverse battery protection.



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

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	Per Leg	15	A
	Total	30	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	310	A
Operating Temperature Range	T_J	175	°C
Storage Temperature Range	T_{STG}	-55 to +175	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$		°C/W
TO-220AB, TO-263		2	
TO-220F		4	

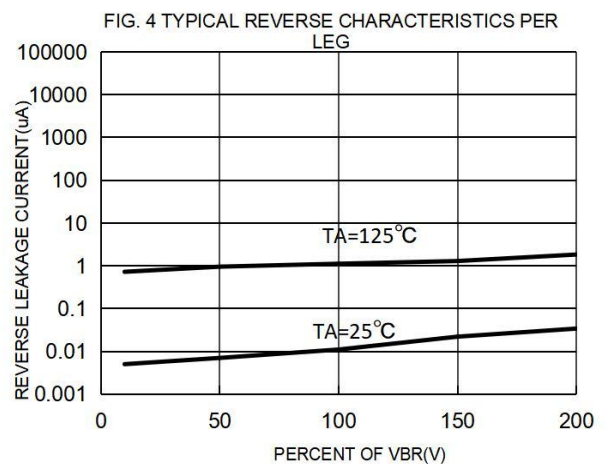
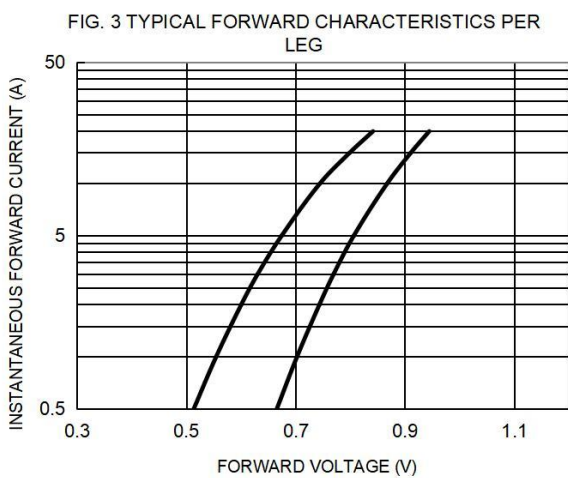
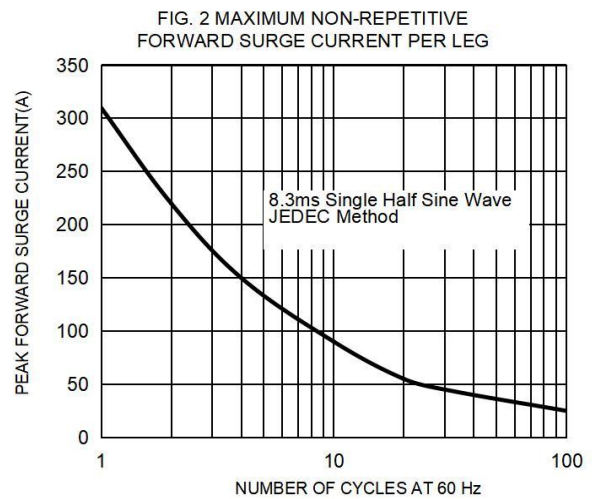
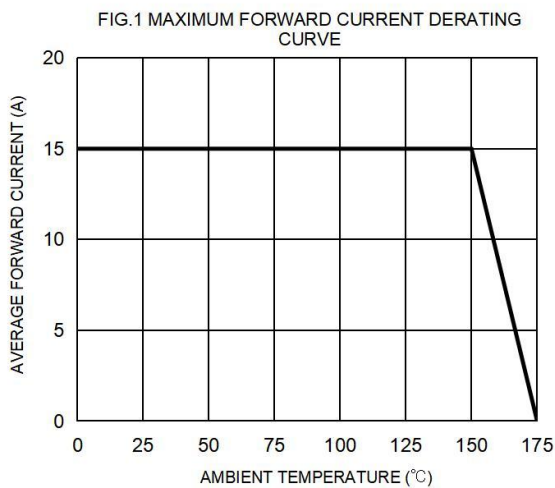
Note1: Thermal resistance from Junction to case per leg mounted on heat sink.

Electrical Characteristics(Per Leg) unless otherwise specified

Parameter		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V_F	Typ.	Max.	V
at $I_F=15A$	$T_A=25^\circ C$		0.91	1.05	
	$T_A=125^\circ C$		0.80	-	
Maximum Reverse Current at $V_R=200V$	$T_A=25^\circ C$	I_R	0.1	10	μA
	$T_A=125^\circ C$		2	-	μA
Maximum Reverse Recovery Time at $I_F=0.5A, I_R=1A$		T_{rr}	23	25	ns

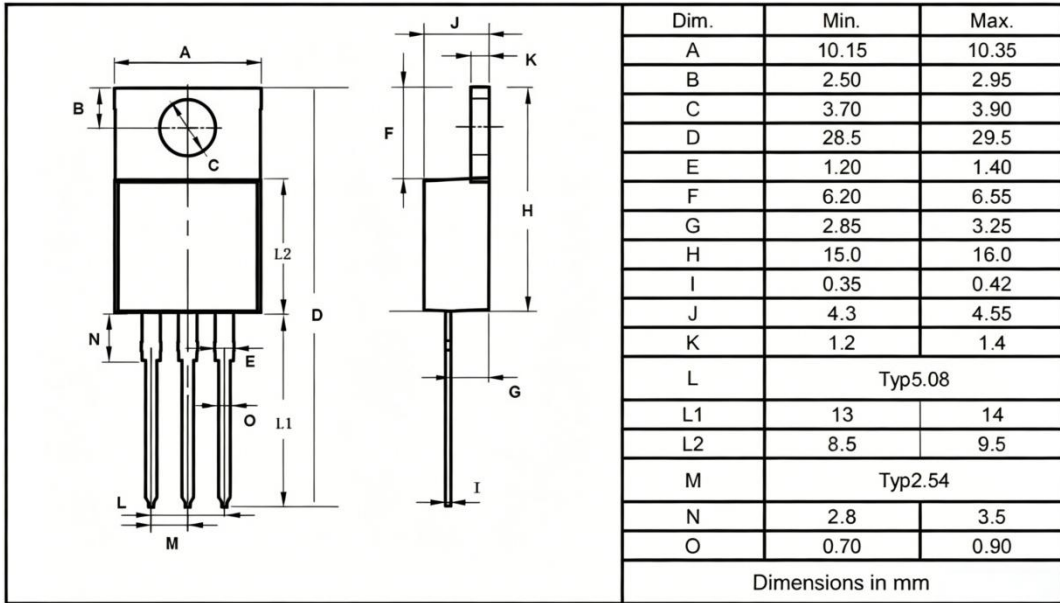
Note2:Pulse test: 300 μs pulse width, 1% duty cycle

Typical Characteristics

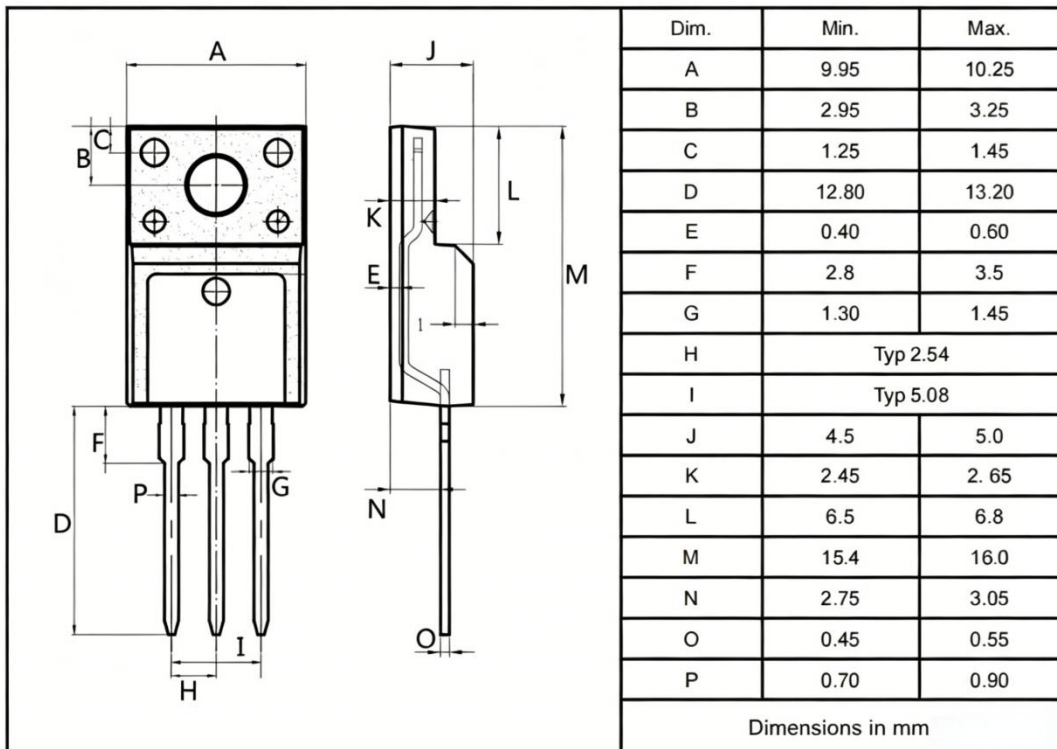


Package Outlines

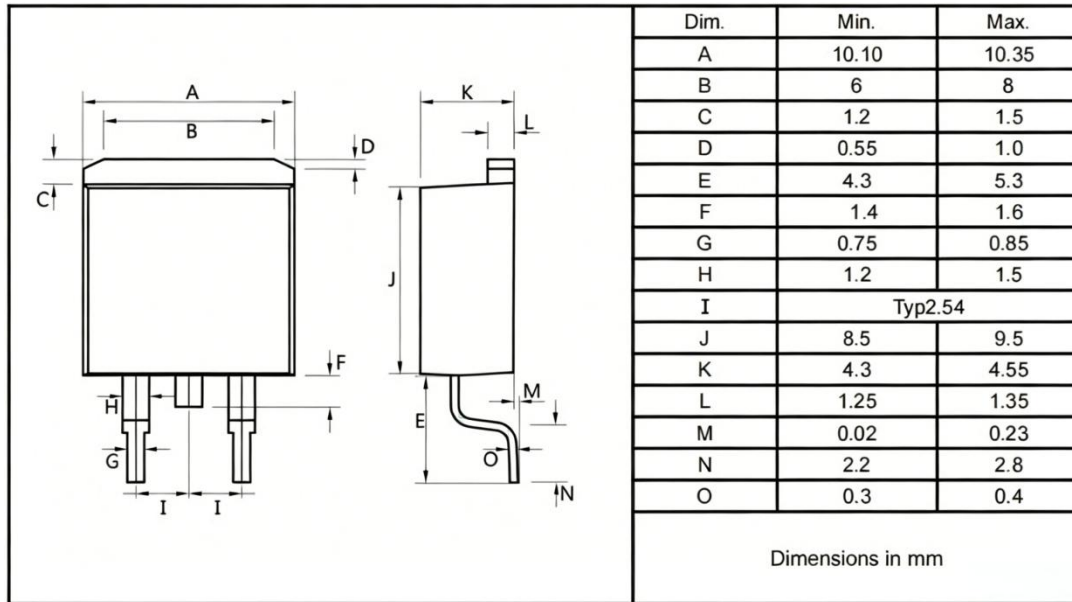
TO-220AB



TO-220F



TO-263



***Important Usage Information and Disclaimer**

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