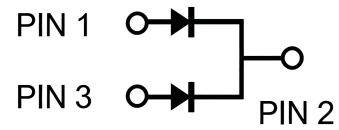


Ultrafast Recovery Rectifiers

Parameter	Value	Unit
V_{RRM}	200	V
$I_{F(AV)}$	16(2*8)	A

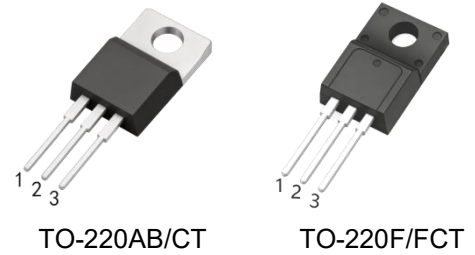


Features

- 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	$I_{F(AV)}$	8	A
	Total		16	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	160	A
Operating Temperature Range		T_J	150	°C
Storage Temperature Range		T_{STG}	-40 to +150	°C
Typical Thermal Resistance (Note1)		$R_{\theta JC}$	2	°C/W
TO-220AB, TO-263				
TO-220F				

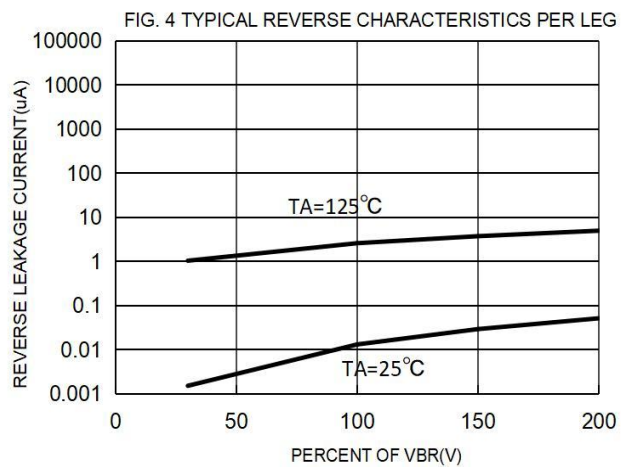
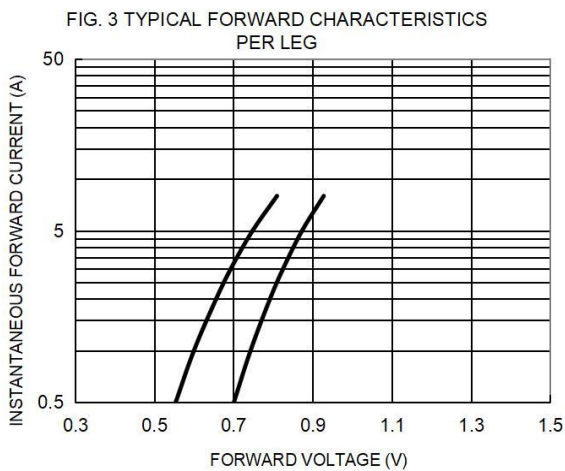
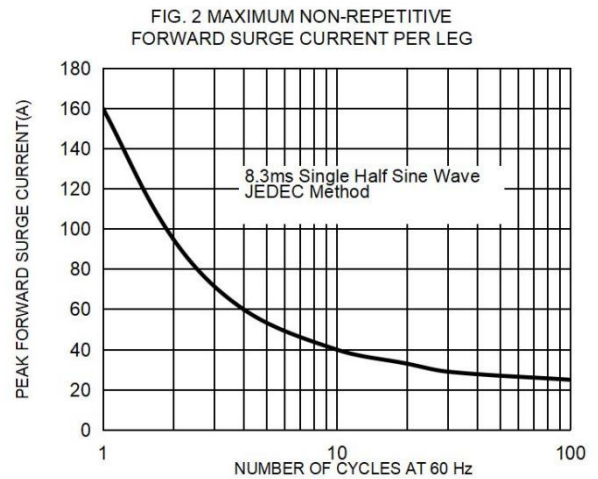
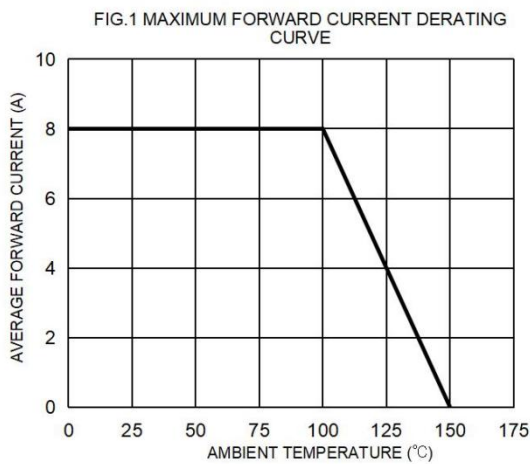
Note1: Thermal resistance from Junction to case per leg mounted on heat sink.

Electrical Characteristics(Per Leg) unless otherwise specified

Parameter		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V_F	Typ.	Max.	V
at $I_F=8A$	$T_A=25^\circ C$		0.93	0.97	
	$T_A=125^\circ C$		0.81	-	
Maximum Reverse Current at $V_R=200V$	$T_A=25^\circ C$	I_R	0.05	1	μA
	$T_A=125^\circ C$		5	-	μA
Maximum Reverse Recovery Time at $I_F=0.5A, I_R=1A$		T_{rr}	-	35	ns

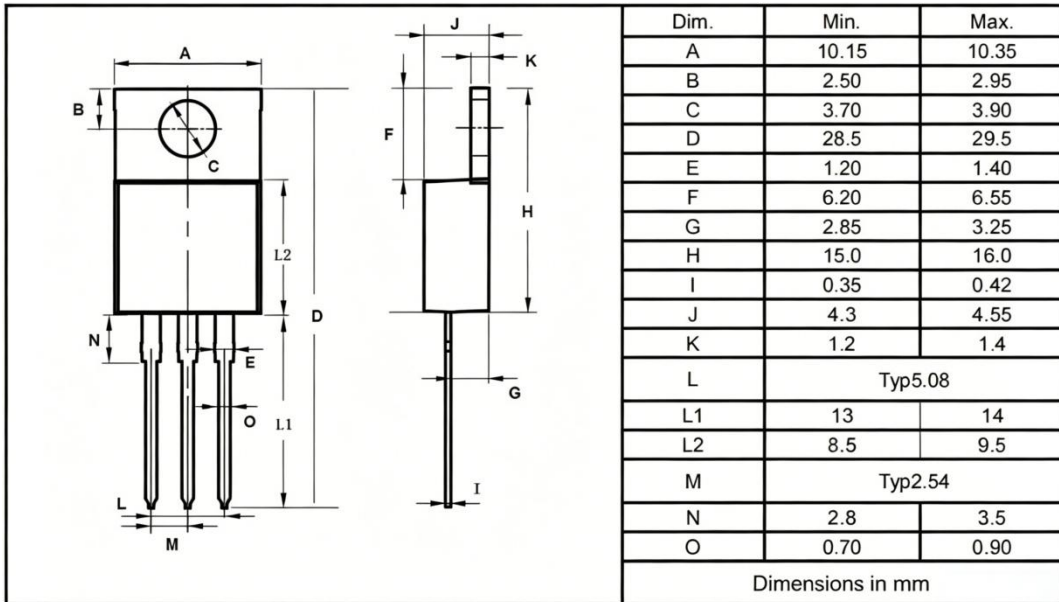
Note2:Pulse test: 300 μs pulse width, 1% duty cycle

Typical Characteristics

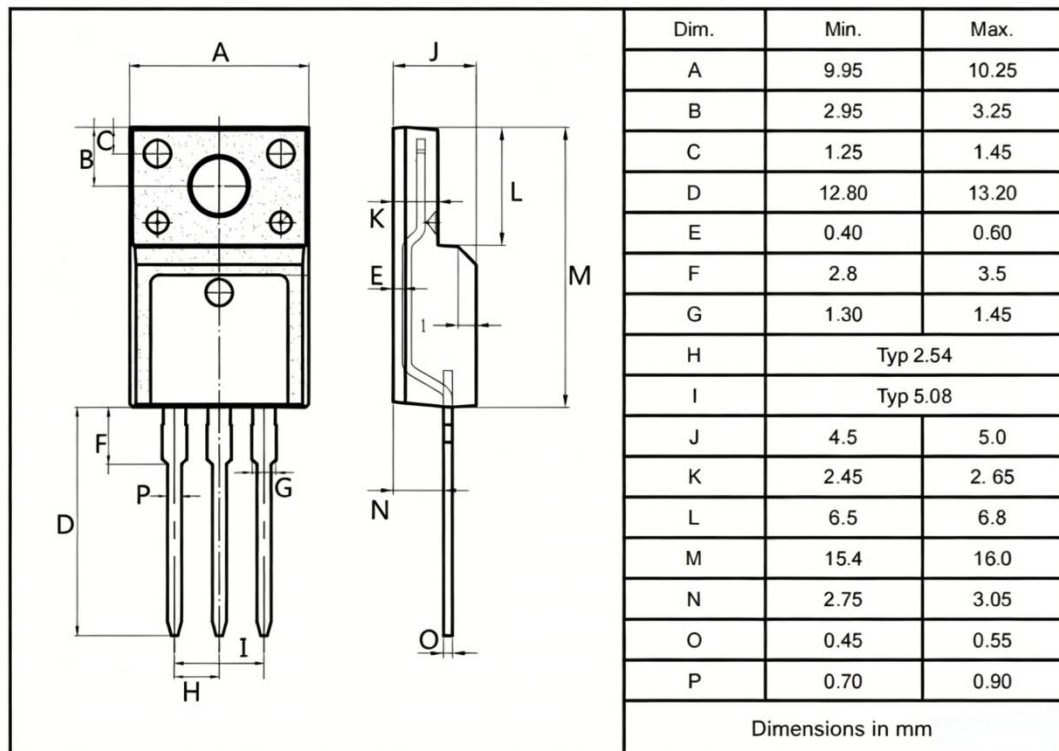


Package Outlines

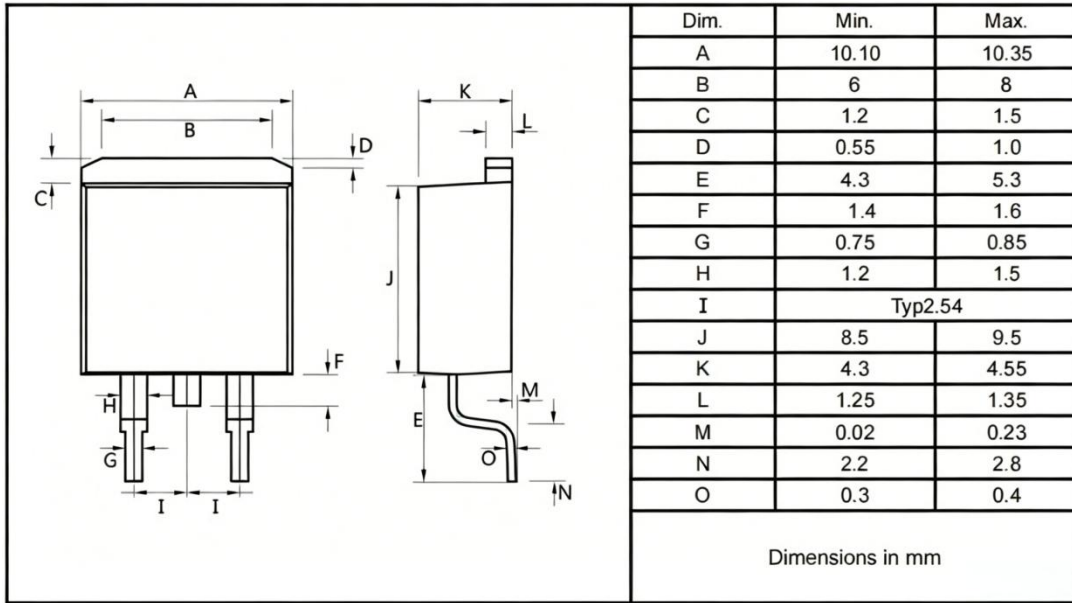
TO-220AB



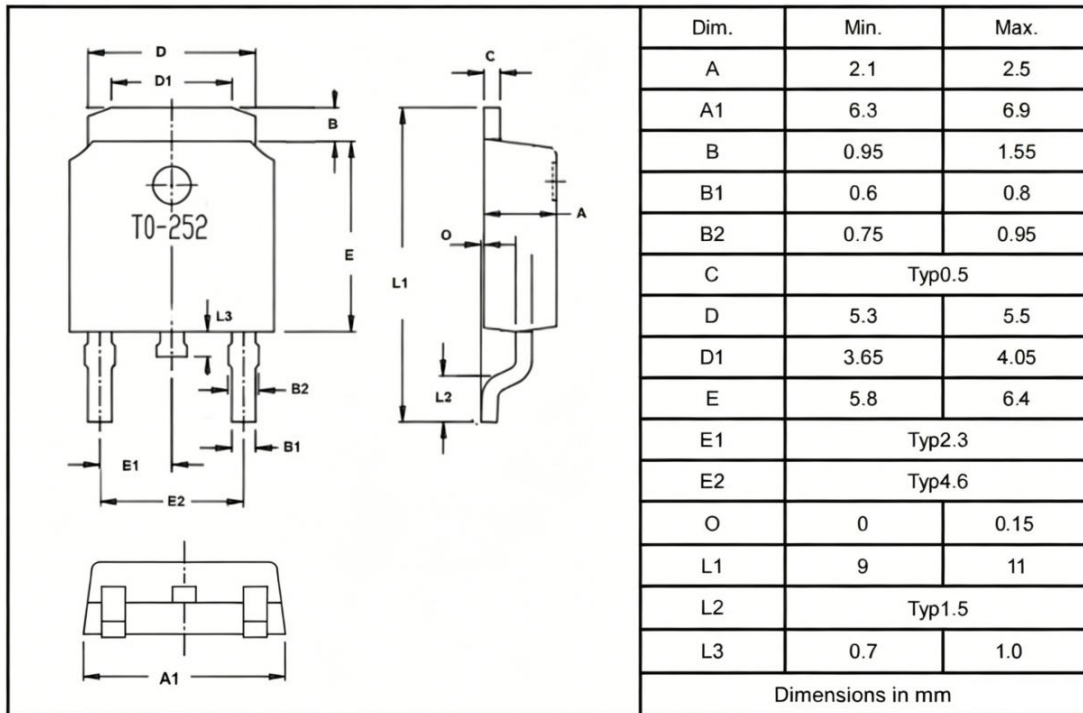
TO-220F



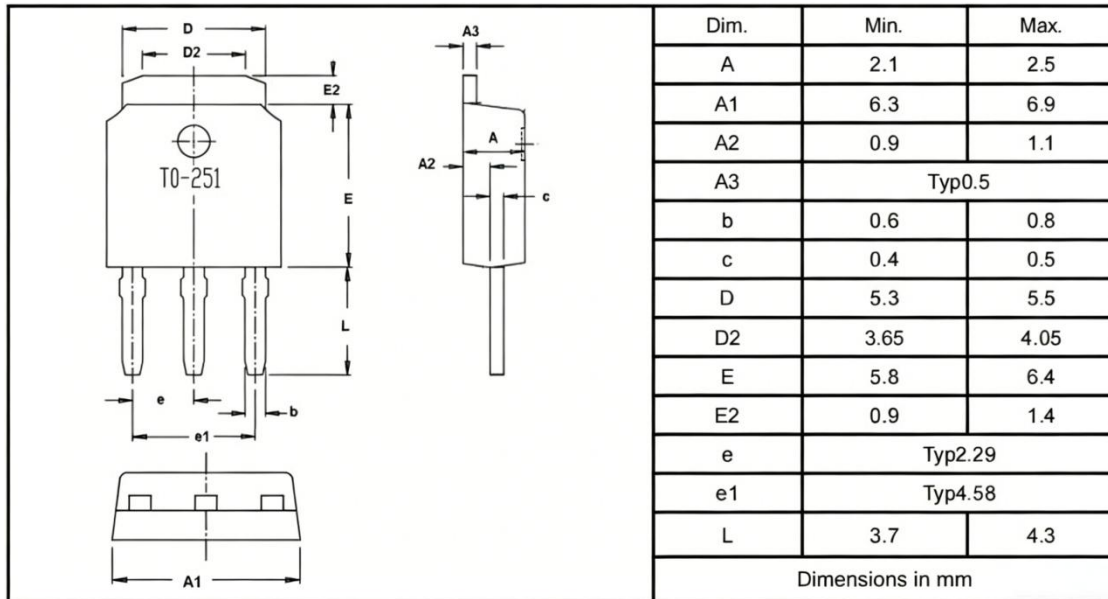
TO-263



TO-252



TO-251



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