



Complementary Silicon Power Transistors

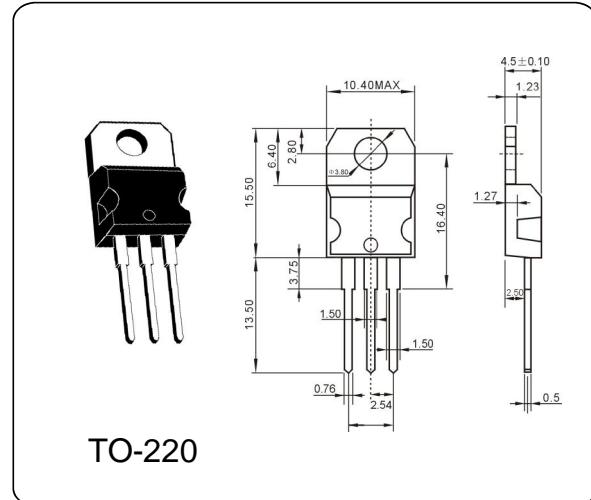
MJE3055T / MJE2955T

DESCRIPTION

It is intended for use in power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CBO}	70	V
Collector-Emitter Voltage	V _{CEO}	60	V
Emitter-Base Voltage	V _{EBO}	5	V
Collector Current	I _C	10	A
Base Current	I _B	6	A
Total Dissipation at	P _{tot}	75	W
Max. Operating Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-55~150	°C



ELECTRICAL CHARACTERISTICS (Ta = 25 °C)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector Cut-off Current	I _{CEO}	V _{CB} =60V, I _E =0			0.3	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =5V, I _C =0			5.0	mA
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C =100mA, I _B =0	60			V
DC Current Gain	h _{FE(1)}	V _{CE} =4V, I _C =4.0A	20		100	
	h _{FE(2)}	V _{CE} =4V, I _C =10.0A	5			
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =4.0A, I _B =400mA			1.1	V
		I _C =10.0A, I _B =3.3A			8.0	
Base-Emitter Saturation Voltage	V _{BE(sat)}	V _{CE} =4V, I _C =4.0A			1.8	V
Current Gain Bandwidth Product	f _T	V _{CE} =10V, I _C =500mA	2			MHz