

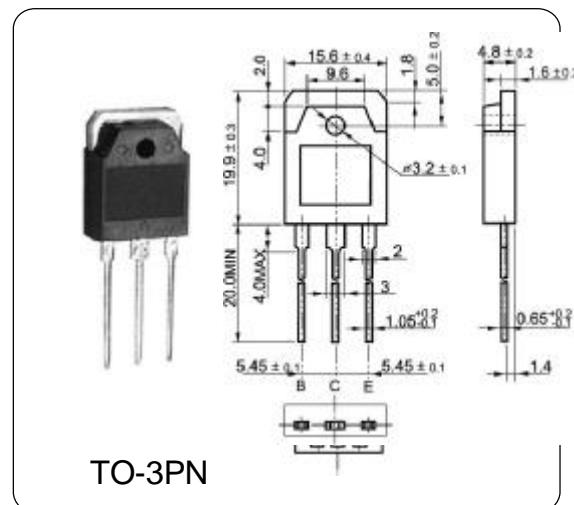


DESCRIPTION

These devices are designed for high -voltage, high -speed power switching inductive circuits where fall time is critical. They are particularly suited for 115 and 220 V SWITCHMODE such as Switching Regulator's, Inverters, Motor Controls, applications Solenoid/Relay drivers and Deflection circuits.

ABSOLUTE MAXIMUM RATINGS (Ta = 25 °C)

Parameter	I	Value	Unit
Collector-Base Voltage	V _{CBO}	700	V
Collector-Emitter Voltage	V _{CEO}	400	V
Emitter-Base Voltage	V _{EBO}	9	V
Collector Current	I _C	12.0	A
Base Current	I _B	6.0	A
Total Dissipation at	P _{tot}	110	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} =400V, I _E =0	—	—	1.0	mA
Emitter Cut-off Current	I _{EBO}	V _{EB} =9V, I _C =0	—	—	1.0	mA
Collector-Emitter Sustaining Voltage	V _{CEO}	I _C =10mA, I _B =0	400	—	—	V
DC Current Gain	h _{FE(1)}	V _{CE} =5V, I _C =5.0A	8	—	40	
	h _{FE(2)}	V _{CE} =5V, I _C =8.0A	6	—	30	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =8.0A, I _B =1.6A	—	—	1.5	V
		I _C =12.0A, I _B =3.0A	—	—	3.0	
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =8.0A, I _B =1.6A	—	—	1.6	V
Current Gain Bandwidth Product	f _T	V _{CE} =10V, I _C =500mA	4	—	—	MHz
Storage Time	T _S	I _{B1} =I _{B2} =1.6A t _p =25us	—	3.5	4	us