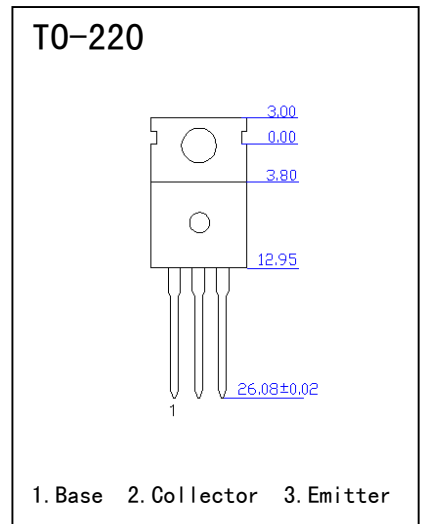


STANDARD
△HIGH VOLTAGE SWITCH MODE APPLICATIONS

- High Speed Switching
- Suitable for Switching Regulator and Motor Control

△ABSOLUTE MAXIMUM RATINGS (TA=25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V _{CB0}	700	V	
Collector-Emitter Voltage	V _{CE0}	400	V	
Emitter-Base Voltage	V _{EB0}	9	V	
Collector Current (DC)	I _C	4	A	
Collector Dissipation	TA=25°C	P _C	1.5	W
	TC=25°C	P _C	75	W
Junction Temperature	T _J	150	°C	
Storage Temperature	T _{STG}	-55-150	°C	


△ELECTRICAL CHARACTERISTICS (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector Cut-off Current	I _{CB0}	V _{CB} =700V, I _E =0			1	mA
Emitter Cut-off Current	I _{EB0}	V _{EB} =9V, I _C =0			1	mA
Collector Emitter Breakdown Voltage	BV _{CE0}	I _C =10mA, I _B =0	400			V
Emitter Base Breakdown Voltage	BV _{EB0}	I _E =1mA, I _C =0	9			V
Collector Base Breakdown Voltage	BV _{CB0}	I _C =1mA, I _E =0	700			V
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C =1A, I _B =200mA			0.5	V
	V _{CE(sat)}	I _C =2A, I _B =500mA			0.6	V
	V _{CE(sat)}	I _C =4A, I _B =1A			1.0	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C =1A, I _B =200mA			1.2	V
	V _{BE(sat)}	I _C =2A, I _B =500mA			1.6	V
DC Current Gain	H _{FE1}	V _{CE} =5V, I _C =1A	10		40	
	H _{FE2}	V _{CE} =5V, I _C =2A	6			
Current Gain Bandwidth Product	f _T	V _{CE} =10V, I _C =0.5A	4			MHz
Output Capacitance	C _{OB}	V _{CB} =10V, f=0.1MHz		65		pF
Turn ON Time	t _{ON}	I _C =2A, I _{B1} =I _{B2} =0.4A, V _{CC} =125V, R _L =62.5Ω			0.8	us
Storage Time	t _S				4.0	us
Fall Time	t _F				0.9	us