



KSH13005

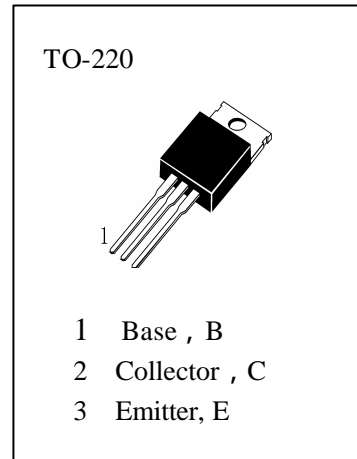
HIGH VOLTAGE SWITCH MODE APPLICATION

High Speed Switching

Suitable for Switching Regulator and Motor Control

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg}	—Storage Temperature.....	-55~150
T_j	—Junction Temperature.....	150
P_c	—Collector Dissipation ($T_c=25$)	75W
V_{CBO}	—Collector-Base Voltage.....	700V
V_{CEO}	—Collector-Emitter Voltage.....	400V
V_{EBO}	—Emitter-Base Voltage.....	9V
I_C	—Collector Current(DC).....	4A
I_C	—Collector Current(Pulse)	8A
I_B	—Base Current.....	2A



电参数 ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CEO}	Collector-Emitter Sustaining Voltage	400			V	$I_C=10mA, I_B=0$
I_{EBO}	Emitter-Base Cut-off Current			1	mA	$V_{EB}=9V, I_C=0$
H_{FE}	DC Current Gain	10		40		$V_{CE}=5V, I_C=1A$
		8		40		$V_{CE}=5V, I_C=2A$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			0.5	V	$I_C=1A, I_B=0.2A$
				0.6	V	$I_C=2A, I_B=0.5A$
				1	V	$I_C=4A, I_B=1A$
$V_{BE(sat)}$	Base- Emitter Saturation Voltage			1.2	V	$I_C=1A, I_B=0.2A$
				1.6	V	$I_C=2A, I_B=0.5A$
C_{ob}	Output Capacitance		65		pF	$V_{CB}=10V, f=0.1MHz$
f_T	Current Gain-Bandwidth Product	4			MHz	$V_{CE}=10V, I_C=0.5A$
t_{ON}	Turn On Time			0.8	μs	$V_{CC}=125V,$ $I_C=2A,$ $I_{B1}=-I_{B2}=0.4A$
t_S	Storage Time			4	μs	
t_F	Fall Time			0.9	μs	

h_{FE} Classification : H1(10--16) H2(14--21) H3(19--26) H4(24--31) H5(29--40)