

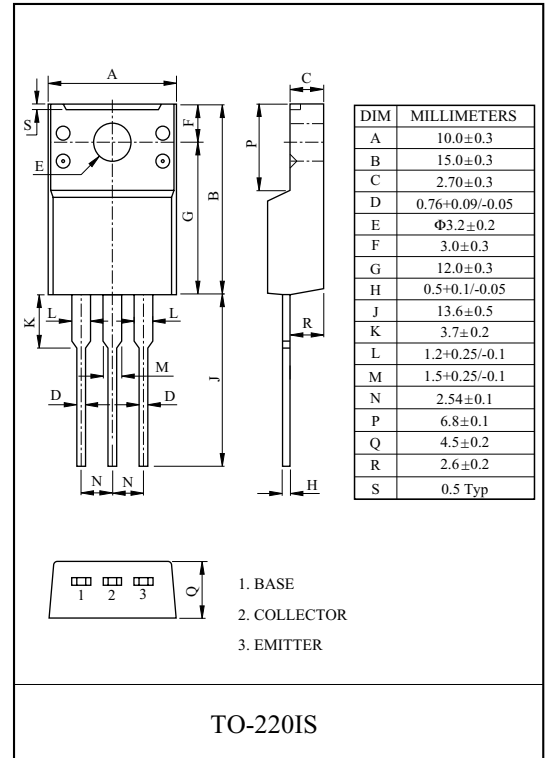
SWITCHING APPLICATIONS.
HAMMER DRIVER, PULSE MOTOR DRIVER
APPLICATIONS.

FEATURES

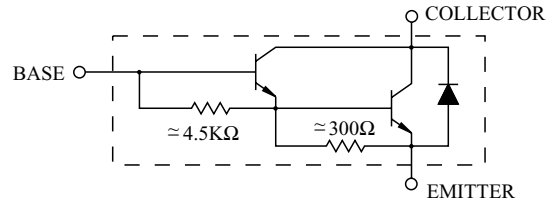
- High DC Current Gain : $h_{FE}=2000(\text{Min.})$ at $V_{CE}=2V, I_C=1A$.

MAXIMUM RATING (Ta=25 °C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	80	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	4	A
Base Current	I_B	0.5	A
Collector Power Dissipation (Tc=25 °C)	P_C	25	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-55 ~ 150	°C



EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS (Ta=25 °C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Collector Cut-off Current	I_{CBO}	$V_{CB}=100V, I_E=0$	-	-	20	μA	
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$	-	-	2.5	mA	
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=10mA, I_B=0$	80	-	-	V	
DC Current Gain	$h_{FE}(1)$	$V_{CE}=2V, I_C=1A$	2000	-	-		
	$h_{FE}(2)$	$V_{CE}=2V, I_C=3A$	1000	-	-		
Saturation Voltage	Collector-Emitter	$V_{CE(sat)}$	$I_C=3A, I_B=6mA$	-	-	1.5	V
	Base-Emitter	$V_{BE(sat)}$	$I_C=3A, I_B=6mA$	-	-	2.0	
Switching Time	Turn-on Time	t_{on}	<p>$I_{B1}=I_{B2}=6mA$ DUTY CYCLE ≤ 1%</p>	-	0.2	-	μS
	Storage Time	t_{stg}		-	1.5	-	
	Fall Time	t_f		-	0.6	-	

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