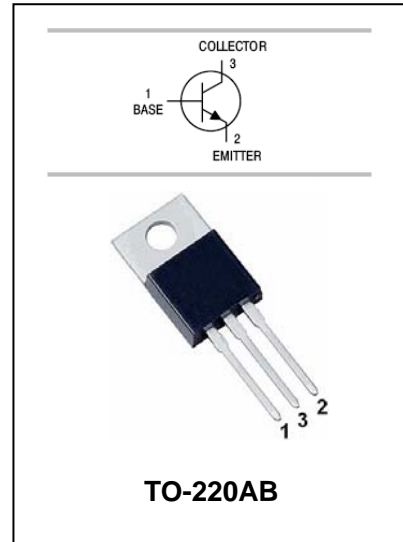


NPN Triple Didduesd Planar Silicon Transistor

2SC2073

FEATURES

- High Breakdown Voltage($V_{CBO} \geq 900V$).
- Fast Switching Speed.
- Wide ASO.



MAXIMUM RATING operating temperature range applies unless otherwise specified

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	900	V
V_{CEO}	Collector-Emitter Voltage	800	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current	1.5 5	A
		Continuous Pulse	
I_B	Base Crrent	0.8	A
P_C	Collector Dissipation	2 40	W
		$T_a=25^{\circ}C$ $T_c=25^{\circ}C$	
T_j, T_{stg}	Junction and Storage Temperature	-55 to +150	$^{\circ}C$



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ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	900			V
Collector-emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=5mA, I_B=0$	800			V
Emitter-base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	7			V
Collector Cut-off Current	I_{CBO}	$V_{CB}=800V, I_E=0$			10	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5V, I_C=0$			10	μA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=0.1A$ $V_{CE}=5V, I_C=0.5A$	10 8		40	
Collector-emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=0.75A, I_B=0.15A$			2	V
Base-emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=0.75A, I_B=0.15A$			1.5	V
Transition Frequency	f_T	$V_{CE}=10V, I_C=0.1A$		15		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0,$ $f=1MHz$		30		pF
Turn-on Time	t_{on}	$I_C=1A, I_{B1}=0.2A,$ $I_{B2}=-0.4A, R_L=4000\Omega$ $V_{CC}=400V$			1.0	μs
Storage Time	t_{stg}				3.0	μs
Fall Time	t_f				0.7	μs

CLASSIFICATION OF h_{FE}

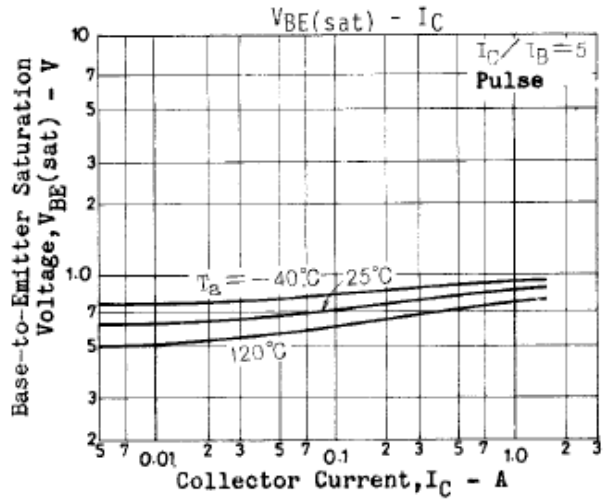
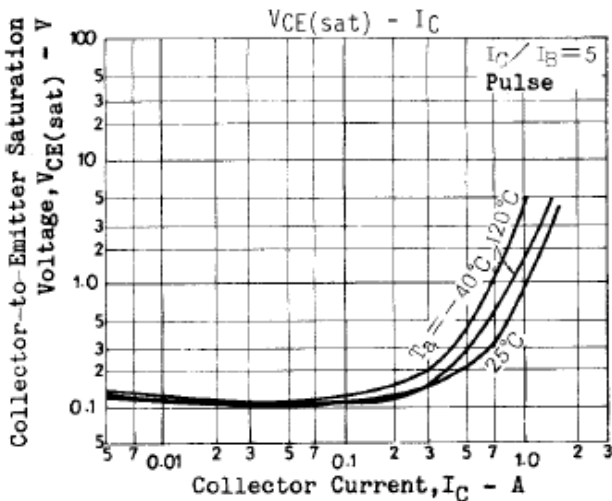
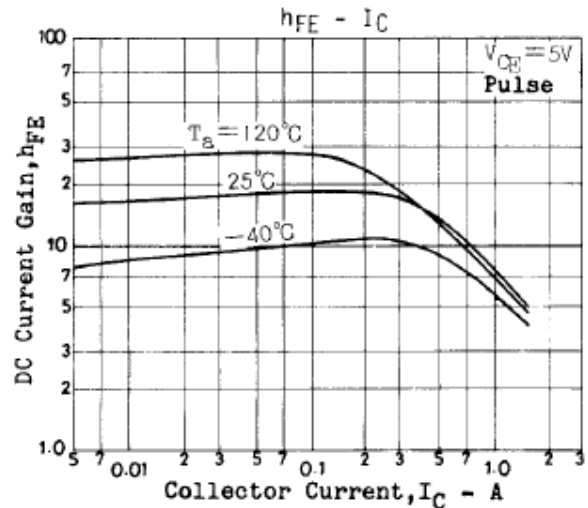
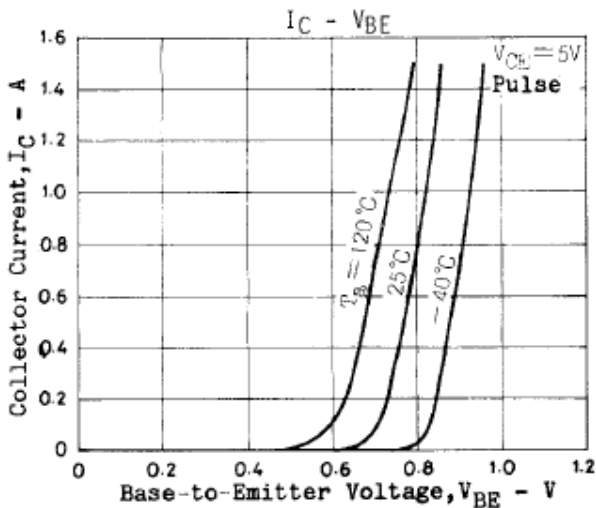
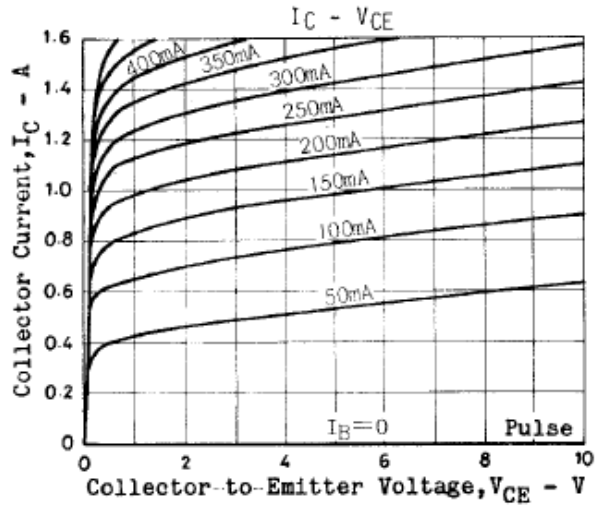
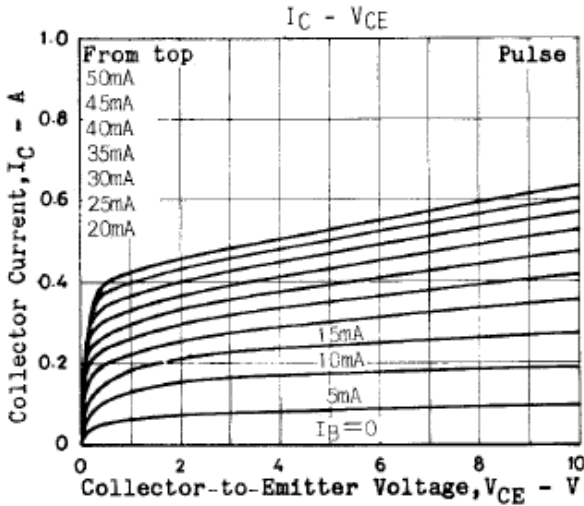
Range	K	L	M
Marking	10-20	15-30	20-40



NPN Triple Diddueds Planar Silicon Transistor

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TYPICAL CHARACTERISTICS @ $T_a=25^\circ\text{C}$ unless otherwise specified





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PACKAGE OUTLINE

Plastic surface mounted package

TO-220AB

