



TO-220 Plastic-Encapsulated Transistors

2SC2073 TRANSISTOR (NPN)

FEATURES

Power dissipation

$$P_{CM}: 1.5 \text{ W (Tamb=25°C)}$$

Collector current

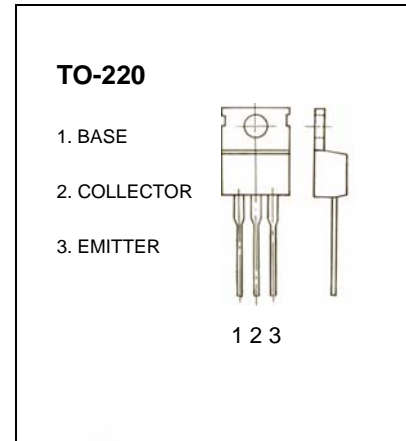
$$I_{CM}: 1.5 \text{ A}$$

Collector-base voltage

$$V_{(BR)CBO}: 150 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55°C \text{ to } +150°C$$



ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	150			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1 \text{ mA}, I_B=0$	150			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=120 \text{ V}, I_E=0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5 \text{ V}, I_C=0$			10	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=10 \text{ V}, I_C=500 \text{ mA}$	40		140	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500 \text{ mA}, I_B=50 \text{ mA}$			1.5	V
Base-emitter voltage	V_{BE}	$V_{CE}=10 \text{ V}, I_C=500 \text{ mA}$	0.65		0.85	V
Transition frequency	f_T	$V_{CE}=10 \text{ V}, I_C=500 \text{ mA}$		4		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10 \text{ V}, I_E=0, f=1 \text{ MHz}$		35		pF