

2SC388 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.3 W ($T_{amb}=25^{\circ}C$)

Collector current

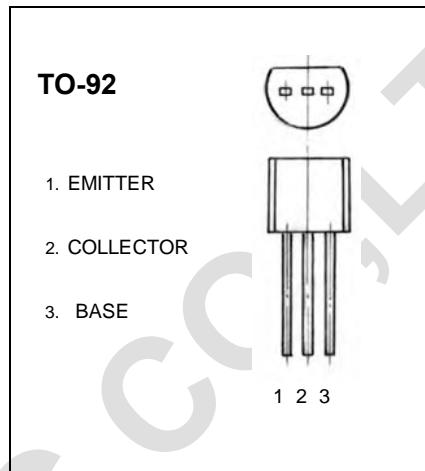
I_{CM} : 50 mA

Collector-base voltage

$V_{(BR)CBO}$: 30 V

Operating and storage junction temperature range

T_J, T_{stg} : -55°C to +150°C



ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=5mA, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	4			V
Collector cut-off current	I_{CBO}	$V_{CB}=30V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=3V, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=12.5V, I_C=12.5mA$	20		200	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=15mA, I_B=1.5mA$			0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=15mA, I_B=1.5mA$			1.2	V
Transition frequency	f_T	$V_{CE}=12.5V, I_C=12.5mA$	300			MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$	0.8		2	pF
Power Gain	G_{pe}	$V_{CC}=12.5V, I_c=12.5mA, f=45MHz$	28		36	dB