

2SC3650 TRANSISTOR (NPN)

FEATURES

Power dissipation

$$P_{CM}: 0.5 \text{ W (Tamb=25°C)}$$

Collector current

$$I_{CM}: 1.2 \text{ A}$$

Collector-base voltage

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

Operating and storage junction temperature range

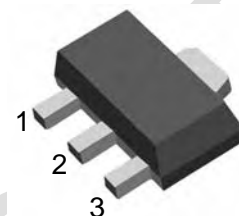
$$T_J, T_{stg}: -55°C \text{ to } +150°C$$

SOT-89

1. BASE

2. COLLECTOR

3. EMITTER



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	15			V
Collector cut-off current	I_{CBO}	$V_{CB}=20V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=10V, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=500mA$	800		3200	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=10mA$	600			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=10mA$			0.5	V
Base-emitter saturation voltage	$V_{bE(sat)}$	$I_C=500mA, I_B=10mA$			1.2	V
Transition frequency	f_T	$V_{CE}=10V, I_C=50mA$		220		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		17		pF

Marking	CF
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