

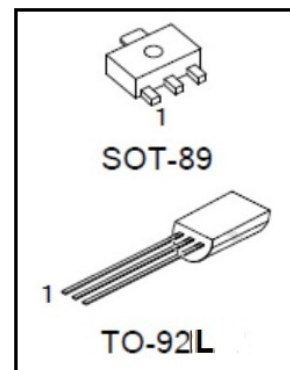
2SC2383

Features

- Complementary to: 2SA1013
- Package: TO-92L/SOT-89

Maximum Ratings (Ta = 25°)

Parameter	Symbol	Rating	Unit
Collector-base voltage	BV_{CBO}	160	V
Collector-emitter voltage	BV_{CEO}	160	V
Emitter-base voltage	BV_{EBO}	6	V
Collector current	I_{CM}	1	A
Collector Power Dissipation	P_C	TO-92LM	900
		SOT-89	500
			mW
Junction Temperature	T_j	125	°C
Storage Temperature	T_{stg}	-55~+125	°C



Package	Pin assignment		
	1	2	3
TO-92L	E	C	B
SOT-89	B	C	E

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C=100\mu A, I_E=0$	160			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=10mA, I_B=0$	160			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E=100\mu A, I_C=0$	6			V
Collector-base cut-off current	I_{CBO}	$V_{CB}=150V, I_E=0$			1.0	μA
Collector-emitter cut-off current	I_{CEO}	$V_{CE}=150V, I_B=0$			10.0	μA
Emitter-base cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			1.0	μA
DC current gain	H_{FE1}	$V_{CE}=5V, I_C=0.2A$	60		320	
	H_{FE2}	$V_{CE}=5V, I_C=10mA$	40			
Collector-emitter saturation voltage	V_{CESAT}	$I_C=0.5A, I_B=50mA$			1.0	V
Base-Emitter Saturation Voltage	V_{BESAT}	$I_C=0.5A, I_B=50mA$			1.2	
Transition frequency	f_T	$V_{CE}=5V, I_C=0.2A,$	20			MHz

Classification of H_{FE}

Rank	2SC2383-R	2SC2383-O	2SC2383-Y
Range	60-120	100-200	160-320