2SD2592L, 2SD2592S

Silicon NPN Triple Diffused Low Frequency Amplifier

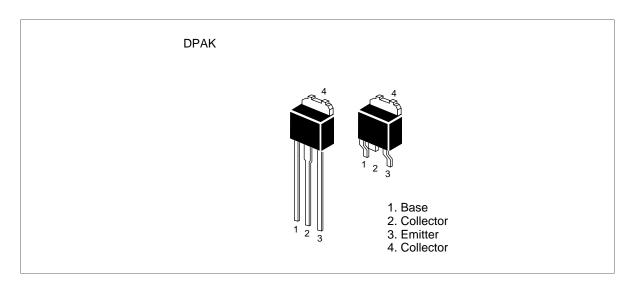
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1st. Edition December 1997 Target Specification

Features

• High voltage : $V_{(BR)CEO} = 300V$ min.

Outline





2SD2592L, 2SD2592S

Absolute Maximum Ratings ($Ta = 25^{\circ}C$)

Item	Symbol	Ratings	Unit	
Collector to Base voltage	V_{CBO}	300	V	
Collector to Emitter voltage	V_{CEO}	300	V	
Emitter to Base voltage	V_{EBO}	5	V	
Collector current	I _c	0.15	Α	
Collector peak current	I _{C(peak)}	0.6	Α	
Collector power dissipation	Pc Note1	10	W	
Junction temperature	Tj	150	°C	
Storage temperature	Tstg	-55 to +150	°C	

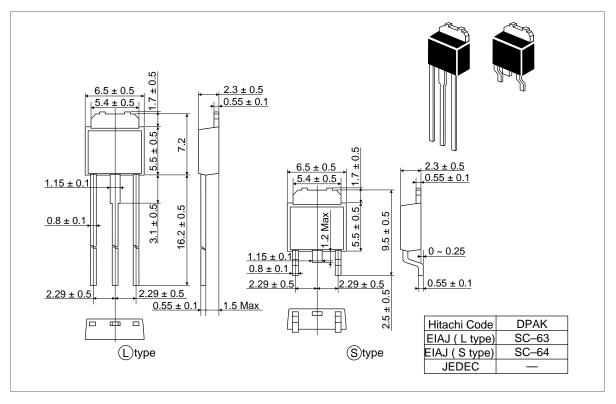
Note: 1. Value at Tc = 25°C

Electrical Characteristics (Ta = 25°C)

Item	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	300	_	_	V	$I_{\rm C}$ = 1mA, $R_{\rm BE}$ = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5		_	V	$I_{E} = 10 \text{mA}, I_{C} = 0$
Collector cutoff current	I _{CBO}	_		10	μΑ	$V_{CB} = 300V, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 4V, I_{C} = 0$
DC current transfer ratio	h _{FE1}	60	_	200		$V_{CE} = 1.5V, I_{C} = 20mA$
DC current transfer ratio	h _{FE2}	60	_	_		$V_{CE} = 5V$, $I_{C} = 100$ mA
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	1.0		$I_{\rm C}$ = 100mA, $I_{\rm B}$ = 5mA
Base to emitter saturation voltage	$V_{BE(sat)}$	_	_	1.5		$I_{\rm C}$ = 100mA, $I_{\rm B}$ = 5mA
Gain bandwidth product	f _T	_	16	_	MHz	$V_{CE} = 1.5A, I_{C} = 20mA$

Package Dimensions

Unit: mm



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