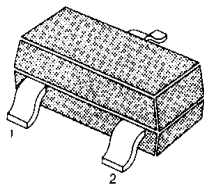


DARLINGTON AMPLIFIER TRANSISTOR

ABSOLUTE MAXIMUM RATINGS (T_A=25 °C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V _{CBO}	30	V
Collector-Emitter Voltage	V _{CES}	30	V
Emitter-Base Voltage	V _{EBO}	10	V
Collector Current	I _C	300	mA
Collector Dissipation	P _C	350	mW
Storage Temperature	T _{STG}	150	°C

SOT-23



1. Base 2. Emitter 3. Collector

ELECTRICAL CHARACTERISTICS (T_A=25 °C)

Characteristic	Symbol	Test Conditions	Min	Max	Unit
Collector-Emitter Breakdown Voltage	BV _{CES}	I _C =100µA, I _B =0	30		V
Collector Cut-off Current	I _{CBO}	V _{CB} =30V, I _E =0		100	nA
Emitter Cut-off Current	I _{EBO}	V _{BE} =10V, I _C =0		100	nA
DC Current Gain	h _{FE}	V _{CE} =5V, I _C =10mA	5,000		
	KST13		10,000		
	KST14	V _{CE} =5V, I _C =100mA	10,000		
	KST13		20,000		
	KST14				
Collector-Emitter Saturation Voltage	V _{CE} (sat)	I _C =100mA, I _B =0.1mA		1.5	V
Base-Emitter On Voltage	V _{BE} (on)	V _{CE} =5V, I _C =100mA		2.0	V
Current Gain Bandwidth Product	f _T	V _{CE} =5V, I _C =10mA f=100MHz	125		MHz

MARKING CODE

TYPE	KST13	KST14
MARK	1M	1N

Marking

