DARLINGTON TRANSISTOR

DESCRIPTION

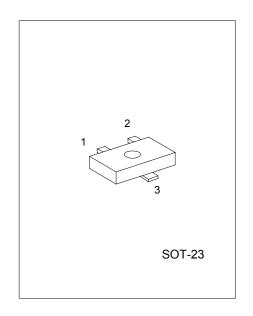
The UTC MMBTA14 is a Darlington transistor.

FEATURES

*Collector-Emitter Voltage: VCES = 30V *Collector Dissipation: Pc (mas) = 350 mW

MARKING





1: EMITTER 2: BASE 3: COLLECTOR

ABSOLUTE MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified.)

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PARAMETER	SYMBOL	VALUE	UNIT				
Collector-Base Voltage	Vсво	30	V				
Collector-Emitter Voltage	VCES	30	V				
Emitter-Base Voltage	VEBO	10	V				
Collector Dissipation (Tc=25°C)	Pc	350	mW				
Collector Current	Ic	500	mA				
Junction Temperature	Tj	150	°C				
Storage Temperature	Tstg	-55 ~ +150	°C				

ELECTRICAL CHARACTERISTICS (Tj=25°C, unless otherwise specified)

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT		
Collector-Emitter Breakdown Voltage	BVces	Ic=100μA,Iв=0	30		V		
Collector Cut-Off Current	Ісво	Vcb=30V,IE=0		100	nA		
Emitter Cut-Off Current	IEBO	VEB=10V,Ic=0		100	nA		
DC Current Gain	hFE	Vce=5V,lc=100mA	20000				
Collector-Emitter Saturation Voltage	Vce(sat)	Ic=100mA,IB=0.1mA		1.5	V		
Base-Emitter on Voltage	VBE(on)	Vce=5V,lc=100mA		2.0	V		
Current Gain Bandwidth Product	f⊤	Vce=5V,lc=10mA,	125		MHz		
		f=100MHz					

Pulse test: Pulse Width<300μs, Duty Cycle=2%



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