UTC MPSA14 NPN EPITAXIAL SILICON TRANSISTOR

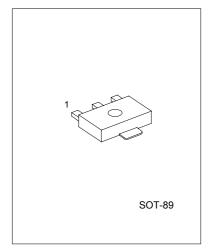
DARLINGTON TRANSISTOR

DESCRIPTION

The UTC MPSA14 is a Darlington transistor.

FEATURES

*Collector-Emitter Voltage: VcEs = 30V *Collector Dissipation: Pc (mas) = 625 mW



1: EMITTER 2: COLLECTOR 3: BASE

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

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	625	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)

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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