# UTC MPSA13 NPN EPITAXIAL SILICON TRANSISTOR

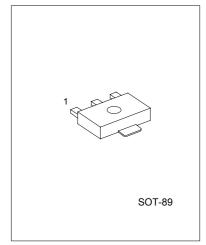
### **DARLINGTON TRANSISTOR**

#### **DESCRIPTION**

The UTC MPSA13 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 (Ta=25°C)

PARAMETER	SYMBOL	SYMBOL VALUE	
Collector-Base Voltage	VCBO	30	V
Collector-Emitter Voltage	VCES	30	V
Emitter-Base Voltage	VEBO	10	V
Collector Dissipation	ww <b>R.C</b> ataSheet4U.com	625	mW
Collector Current	lc	500	mA
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 ~ <b>+</b> 150	°C

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

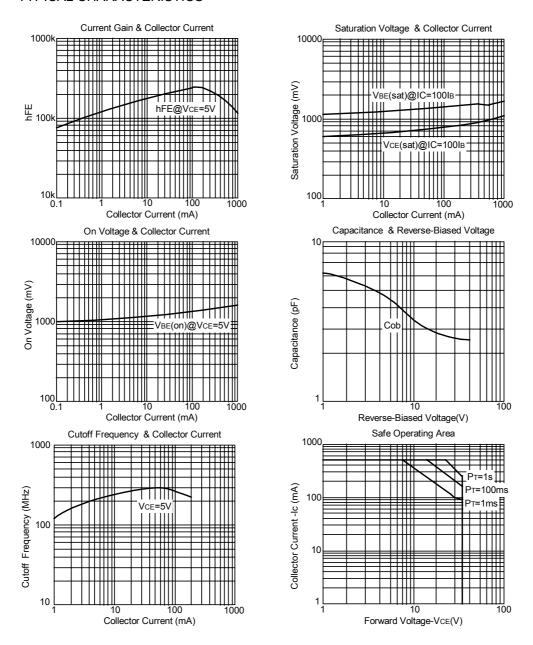
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-Emitter Breakdown Voltage	BVces	Ic=100μA,Iв=0	30		V
Collector Cut-Off Current	Ісво	Vcb=30V,IE=0		100	nA
Emitter Cut-Off Current	IEBO	VEB=10V,Ic=0		100	nA
DC Current Gain	hFE	Vce=5V,lc=100mA	10000		
Collector-Emitter Saturation Voltage	VcE(sat)	Ic=100mA,IB=0.1mA		1.5	V
Base-Emitter on Voltage	VBE(on)	Vce=5V,lc=100mA		2.0	V
Current Gain Bandwidth Product	fτ	VCE=5V,Ic=10mA,	125		MHz
		f=100MHz			

Pulse test: Pulse Width<300 $\mu$ s, Duty Cycle=2%

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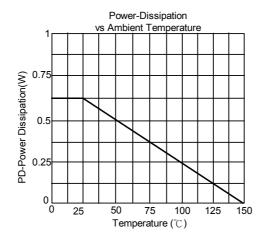
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#### TYPICAL CHARACTERISTICS



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