UTC MPSA113 NPN EPITAXIAL SILICON TRANSISTOR

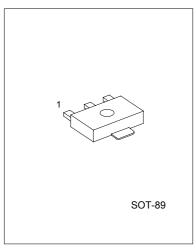
DARLINGTON TRANSISTOR

DESCRIPTION

The UTC MPSA113 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	lc	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,Ic=100mA	30000				
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=100mA,IB=0.1mA		1.5	V		
Base-Emitter on Voltage	VBE(on)	VCE=5V,Ic=100mA		2.0	V		
Current Gain Bandwidth Product	f⊤	Vce=5V,Ic=10mA, f=100MHz	125		MHz		

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



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