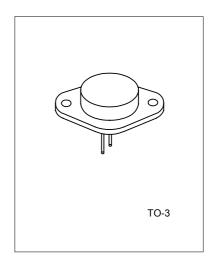
SILICON NPN TRANSISTORS

The UTC 2N3055 is a silicon NPN transistor in TO-3 metal case. It is intended for power switching circuits, series and shunt regulators, output stages and high fidelity amplifiers.



ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETERS	SYMBOL	VALUE	UNITS
Collector-Base Voltage	Vсво	100	V
Collector-Emitter Voltage	VCEO	60	V
Emitter-Base Voltage	VEBO	7	V
Collector-Emitter Voltage	VCEV	70	V
Collector Current	lc	15	Α
Collector Peak Current(1)	Ісм	15	Α
Base Current	lв	7	А
Base Peak Current(1)	Івм	15	А
Total Dissipation at Ta=25°C	Ptot	115	W
Storage Temperature	Tstg	-65 to 200	°C
Max. Operating Junction Temperature	Tj	200	°C

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

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT		
OFF CHARACTERISTICS								
Collector-Emitter Sustaining Voltage	VCEO(sus)	Ic=200mA, IB=0V	60			V		
Collector-Emitter Sustaining Voltage	VCER(sus)	Ic=0.2 A, RBE=100 Ohms	70			V		
Collector Cut-off Current	ICEO	VcE=30V,IB=0			0.7	mA		
Collector Cut-off Current	ICEX	VCE=100V,VBE(off)=1.5V. VCE=100V,VBE(off)=1.5V, Ta=150°C			1.0 5.0	mA		
Emitter Cut-off Current	lево	VBE=7V,IC=0			5.0	mA		
ON CHARACTERISTICS								
DC Current Gain(note)	hFE	Ic=4A,VCE=4V, Ic=10A,VCE=4V	20 5		70			
Collector-Emitter Saturation Voltage	Vce(sat)	Ic=4A,IB=400mA Ic=10A,IB=3.3A			1.1 3.0	V		

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UTC 2N3055

SILICON NPN TRANSISTOR

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Base-Emitter On Voltage	VBE(on)	Ic=4A,VCE=4V			1.5	V
SECOND BREAKDOWN		_				
Second Breakdown Collector with	ls/b	VCE=60V,T=1.0s, Non-repetitive	2.87			Α
Base Forward Biased						
DYNAMIC CHARACTERISTICS						
Current Gain-Bandwidth Product	fT	Ic=0.5A,VcE=10V,f=1MHz	2.5			MHz
Small-Signal Current Gain	hFE	Ic=1A,VcE=4V,f=1kHz	15		120	
Small-Signal Current Gain	fHFE	Ic=1A,VCE=4V	10			kHz
Cut-off Frequency		F=1.0kHz				

Note(1):Pulse Test: Puls Width<=300µs, Duty Cycle<=2%

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