UTC BU208A SILICON DIFFUSED POWER TRANSISTOR

DESCRIPTION

The UTC BU208A is a high voltage, high power, high speed switching NPN transistor in a mental envelope, primarily for use in power supply and horizontal deflection circuits of color television receivers.



1: Base; 2: Emitter; 3: Collector

QUICK REFERENCE DATA

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-emitter voltage peak value	VCESM	VBE=0V		1500	V
Collector-emitter voltage (open base)	VCEO			700	V
Collector current (DC)	Ic			8	Α
Collector current peak value	Ісм			15	Α
Total power dissipation	PD	Tc=25°C		150	W
Collector-emitter saturation voltage	VCEsat	Ic=4.5A; IB=2.0A		1.0	V
Fall time	tf	Ic=4.5A, IB1=-1/2 IB2=1.8A,		1.0	μS
		Vcc=100V			

LIMITING RATINGS

LIMITING RATINGS			_		
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-emitter voltage peak value	VCESM	VBE=0V		1500	V
Collector-emitter voltage (open base)	VCEO			700	V
Collector current (DC)	IC			8	Α
Collector current peak value	Ісм			15	Α
Base current (DC)	lв			2	А
Base current peak value	Івм			4	А
Total power dissipation	PD	Tc=25°C		150	W
Storage temperature	Tstg		-55	+150	°C
Junction temperature	Tj			150	°C

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QW-R205-005,A

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PARAMETER	SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
Collector-emitter cut-off current	ICE	VBE=0V, VCE=VCESMmax		1.0	mA
Collector-emitter cut-off current	ICES	VBE=0V, VCE=VCESMmax,		2.0	mA
		TJ=125°C			
Collector-emitter saturation voltage	VCEO(SUS)	IB=0A, Ic=100mA, L=25mH	700		V
Collector-emitter saturation voltage	VCEsat	Ic=4.5A, IB=2.0A		1.0	V
Base-emitter saturation voltage	VBEsat	Ic=4.5A, IB=2.0A		1.5	V
DC current gain	Hfe	Ic=1A, VCE=5V	8		
Transition frequency at f=1MHz	ft	Ic=0.1A, VCE=10V	3		MHz
Switching times (16KHz line deflection	ts			8.0	μS
circuit)					
Turn-off storage time Turn-off fall time	tf	Ic=4.5A, IB1=-1/2 IB2=1.8A,		1.0	μS
		Vcc=100V			

ELECTRICAL CHARACTERISTICS

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