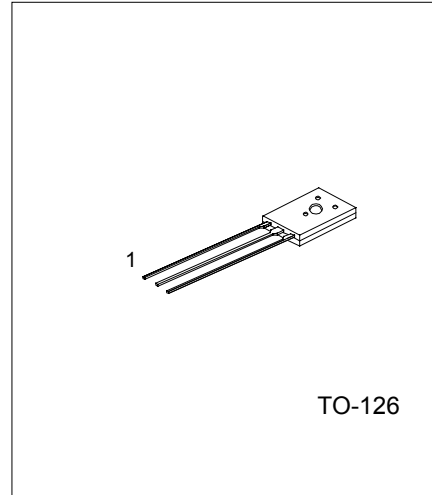


UTC 2SD1609 NPN EPITAXIAL SILICON TRANSISTOR

NPN EPITAXIAL PLANAR TRANSISTOR

FEATURES

* Low frequency high voltage amplifier



1:EMITTER 2:COLLECTOR 3:BASE

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

PARAMETER	SYMBOL	MIN	MAX	UNIT
Collector-Base Voltage	BVCBO		160	V
Collector-Emitter Voltage	BVCEO		160	V
Emitter-Base Voltage	BVEBO		5	V
Collector Current	Ic		100	mA
Total Power Dissipation (Ta=25°C)	Ptot		1.25	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg	-50	150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Voltage	BVCBO	Ic=10μA	160			V
Collector-Emitter Voltage	BVCEO	Ic=1mA	160			V
Emitter-Base Voltage	BVEBO	Ie=10μA	5			V
Collector Cut-off Current	ICBO	VCE=140V			10	μA
DC Current Gain	hFE1	VCE=5V, Ic=10mA	60		320	
	hFE2	VCE=5V, Ic=1mA	30			
Collector-Emitter Saturation Voltage	VCE(sat)	Ic=30mA, Ib=3mA			2	V
Base-Emitter On Voltage	VBE(on)	VCE=5V, Ic=10mA			1.5	V
Current Gain Bandwidth Product	fT	VCE=5V, Ic=10mA	145			MHz
Output Capacitance	Cob	VCE=10V, f=1MHz		3.8		pF

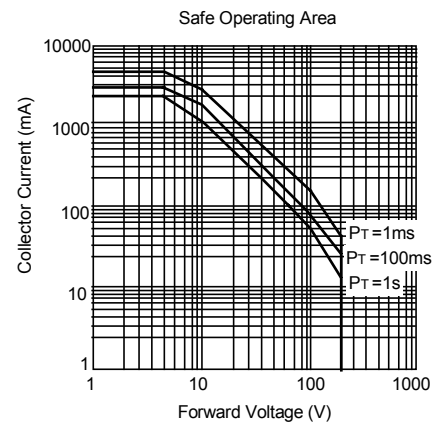
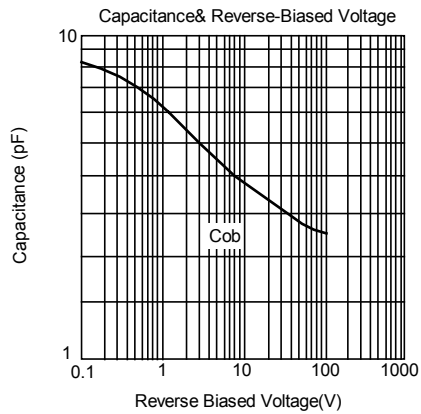
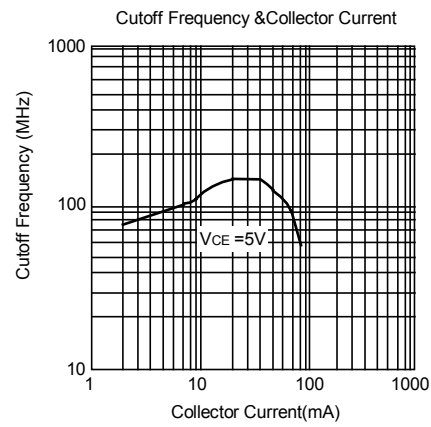
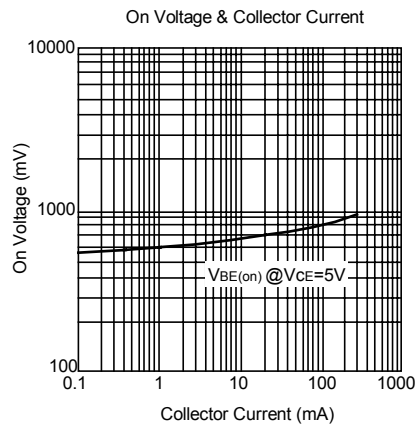
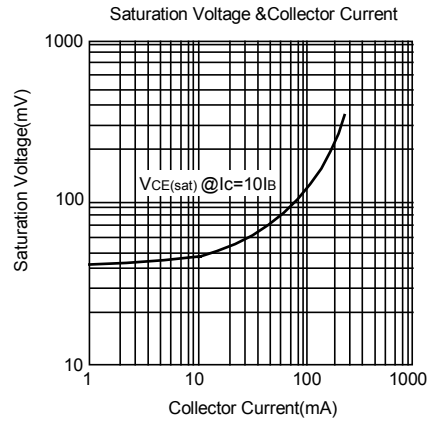
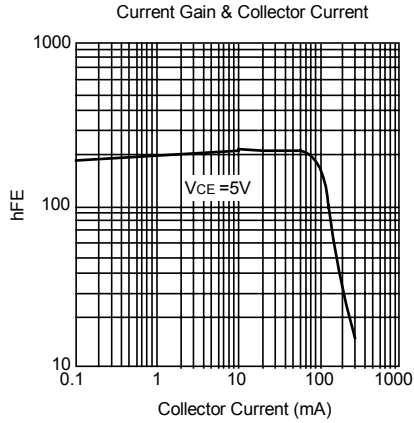
CLASSIFICATION OF hFE1

RANK	B	C	D
RANGE	60-120	100-200	160-320

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CHARACTERISTICS CURVE

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