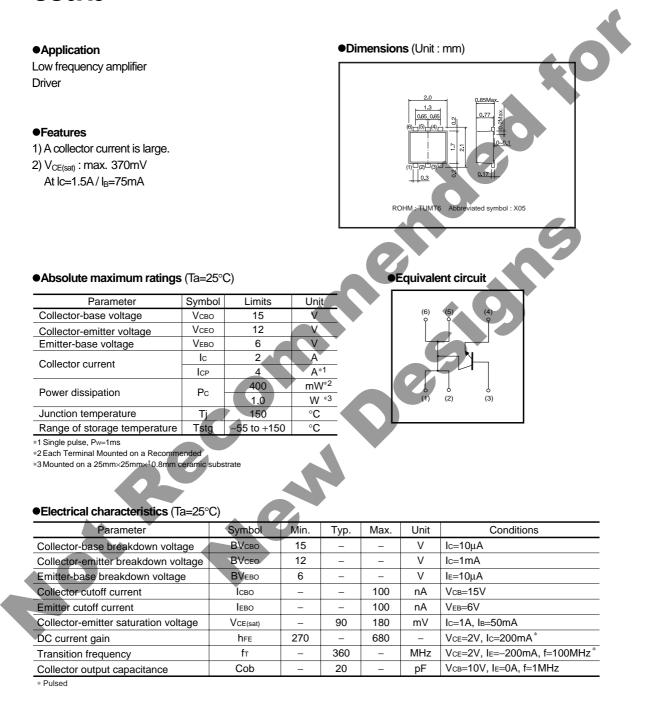
# Low frequency amplifier (12V, 2A)





1/2

US6X5

# Transistors

## Packaging specifications

Туре	Package	Taping
	Code	TR
	Basic ordering unit (pieces)	3000
US6X5		0

#### Electrical characteristic curves 1000 SATURATION VOLTAGE : VCE(sal) (V) \_ Ta=100°C Ic/Is=20/ Ta=25°C COLLECTOR TO EMITTER SATURATION VOLTAGE : VCE(sat) (V) VCE=2V Pulsed hFE 0.1 CURRENT GAIN: 0.1 100 0.01 0.0 Ŋ 0.001 L 0.00 10 L 0.01 0.1 10 0.1 00 COLLECTOR CURRENT : Ic (A) COLLECTOR CURRENT : Ic (A) COLLECTOR CURRENT: Ic (A) Fig.1 DC current gain Fig.3 Collector-emitter saturation voltage Fig.2 Base-emitter saturation voltage vs. collector current vs. collector current vs. collector current 1( 1000 100 Ta=25°C VCE=2V Ta=25°C SITION FREQUENCY : fr (MHz) VCE=5V VCE=2V ulsed COLLECTOR CURRENT : Ic (A) f=100MH f=100MH tη П tsta 0.1 SWITC 1( 0.0 ТП 4 0.001 10 0.00 1 L 0.01 0.0 EMITTER CURRENT : I∈ (A) BASE TO EMITTER CURRENT : VEE (V) COLLECTOR CURRENT : Ic (A) Fig.5 Gain bandwidth product Fig.4 Grounded emitter propagation Fig.6 Switching time vs. emitter current characteristics 1000 ANCE : Cib (pF) ITANCE : Cob (pF) Ta=25°C Ic=0A f=1MHz ĻΠÌ Cib EMITTER INPUT CAPACITA COLLECTOR OUTPUT CAPACI Cob <u>0.1</u> 10 100 EMITTER TO BASE VOLTAGE : VEB(V) COLLECTOR TO BASE VOLTAGE : VCB(V) Fig.7 Collector output capacitance vs. collector-base voltage

Emitter input capacitance vs. emitter-base voltage

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Appendix1-Rev1.1

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