

IMX6 Transistor, dual, 6-pin package**Absolute maximum ratings ($T_a = 25^\circ\text{C}$, common for Tr_1 and Tr_2)**

Parameter	Symbol	Limits	Unit	Conditions
Collector-to-base voltage	V_{CBO}	40	V	
Collector-to-emitter voltage	V_{CEO}	25	V	
Emitter-to-base voltage	V_{EBO}	5	V	
Collector current	I_{C}	50	mA	
Collector dissipation	P_{C}	300	mW	Do not exceed 200 mW per element
Junction temperature	T_{j}	150	$^\circ\text{C}$	
Storage temperature	T_{stg}	$-55 \sim +150$	$^\circ\text{C}$	

Electrical characteristics (unless otherwise noted, $T_a = 25^\circ\text{C}$, common for Tr_1 and Tr_2)

Parameter	Symbol	Min	Typical	Max	Unit	Conditions
Collector-to-base breakdown voltage	BV_{CBO}	40			V	$I_{\text{C}} = 50 \mu\text{A}$
Collector-to-emitter breakdown voltage	BV_{CEO}	25			V	$I_{\text{C}} = 1 \text{ mA}$
Emitter-to-base breakdown voltage	BV_{EBO}	5			V	$I_{\text{E}} = 50 \mu\text{A}$
Collector cutoff current	I_{CBO}			0.5	μA	$V_{\text{CB}} = 24 \text{ V}$
Emitter cutoff current	I_{EBO}			0.5	μA	$V_{\text{EB}} = 3 \text{ V}$
DC current gain	h_{FE}	56				$V_{\text{CE}} = 6 \text{ V}$, $I_{\text{C}} = 1 \text{ mA}$
Collector-to-emitter saturation voltage	$V_{\text{CE(sat)}}$		0.1		V	$I_{\text{C}}/I_{\text{B}} = 10 \text{ mA}/1 \text{ mA}$
Gain bandwidth	f_{T}	150	300		MHz	$V_{\text{CE}} = 6 \text{ V}$, $I_{\text{C}} = 1 \text{ mA}$
Output capacitance	C_{ob}		1.3	2.5	pF	$V_{\text{CB}} = 6 \text{ V}$, $f = 1 \text{ MHz}$, $I_{\text{E}} = 0 \text{ A}$

Electrical characteristic curves

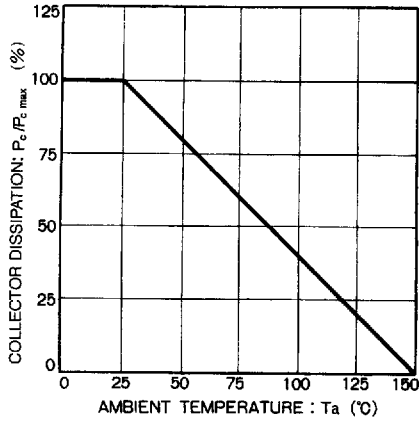


Figure 1

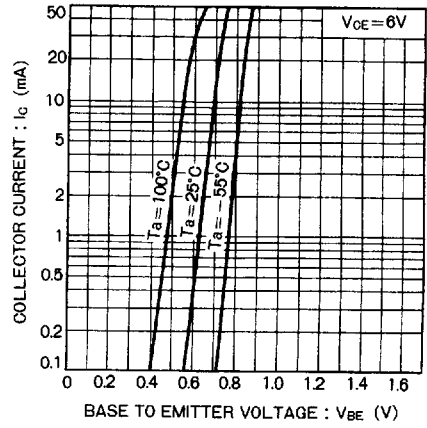


Figure 2

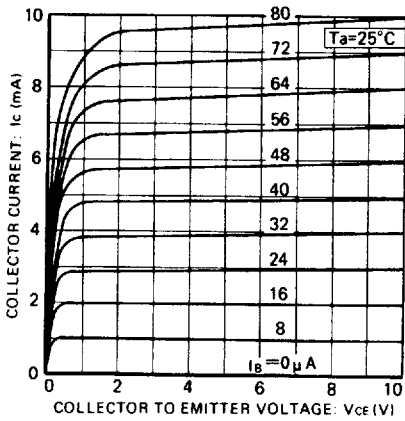


Figure 3

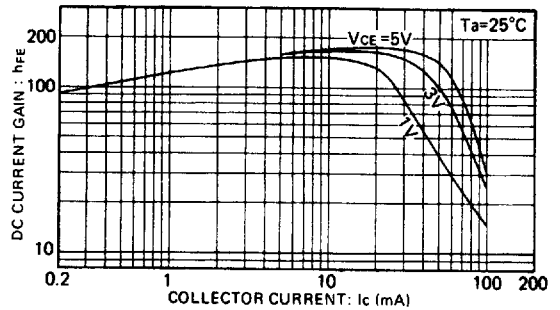


Figure 4

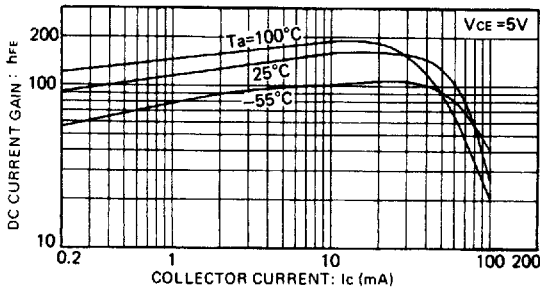


Figure 5

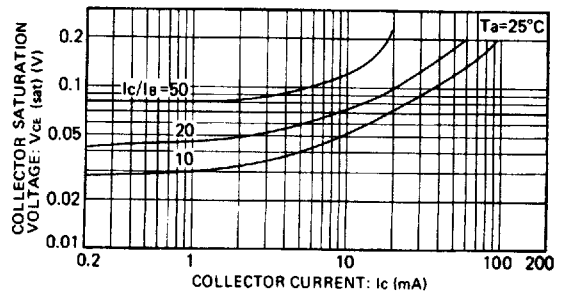


Figure 6

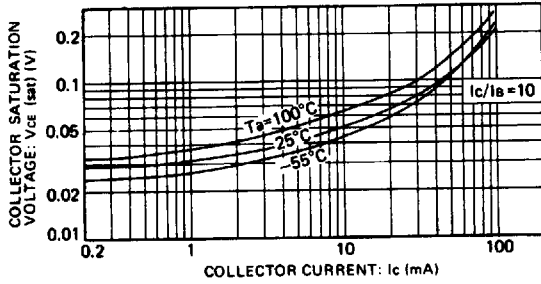


Figure 7

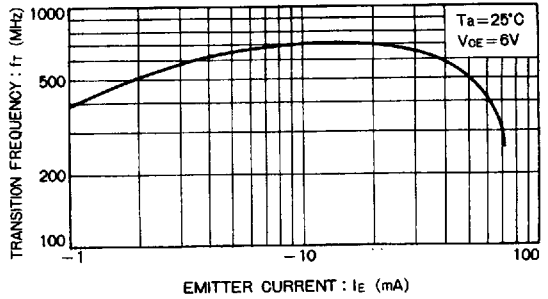


Figure 8

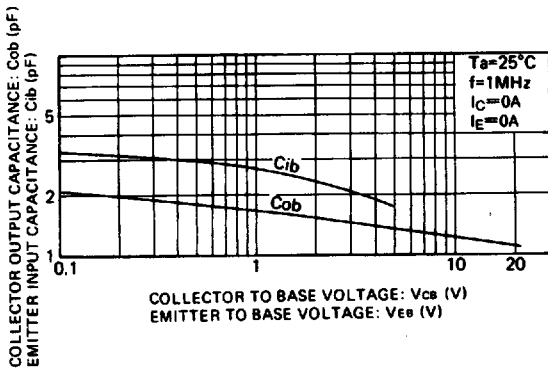


Figure 9

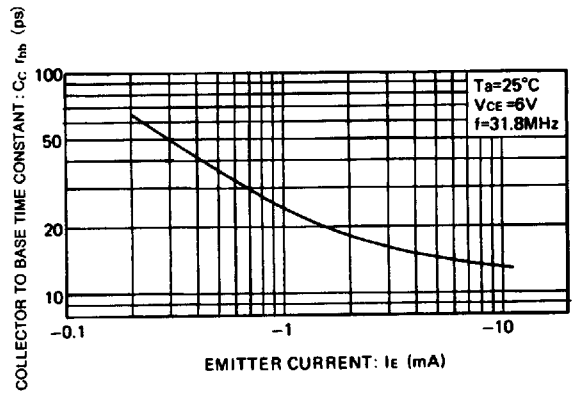


Figure 10

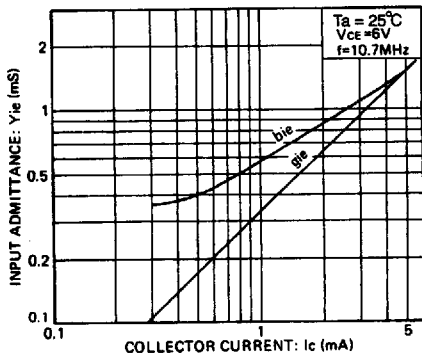


Figure 11

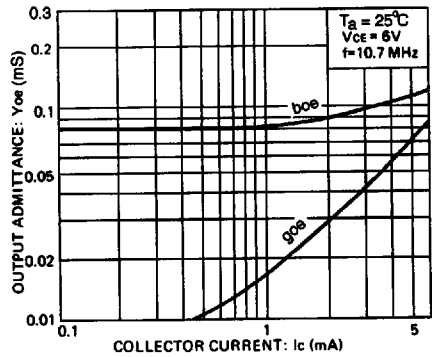


Figure 12

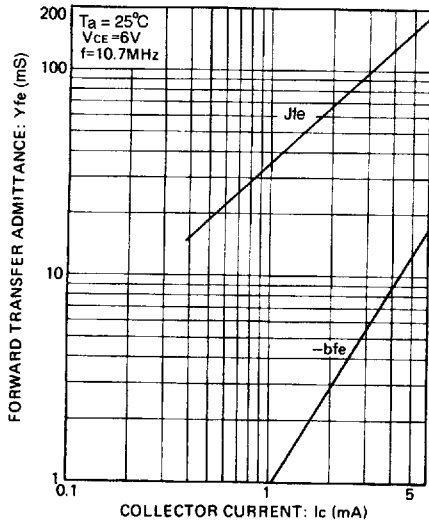


Figure 13

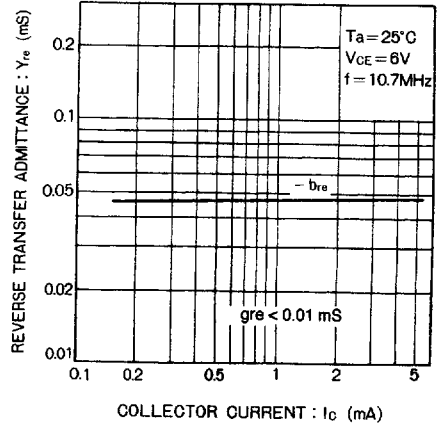


Figure 14

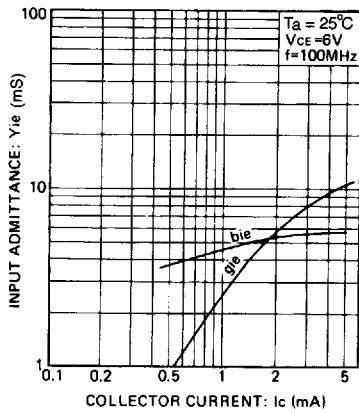


Figure 15

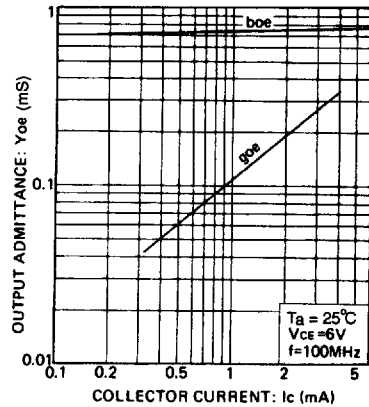


Figure 16

IMX6 Transistor, dual, 6-pin package

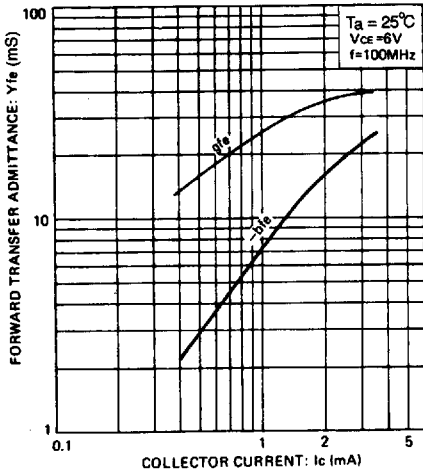


Figure 17

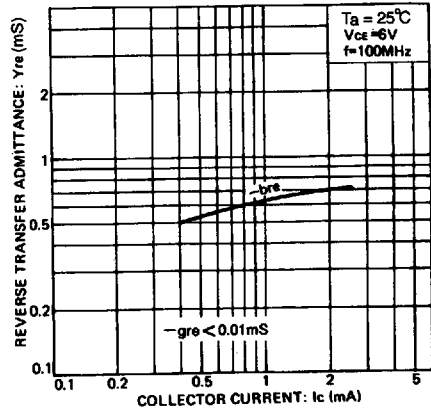


Figure 18

Ordering information

Package	Tape
Code	T108
Basic order quantity	3000
IMX6	☆
★ = Standard, ☆ = Semi-standard, * = Special order	