



# IMX17

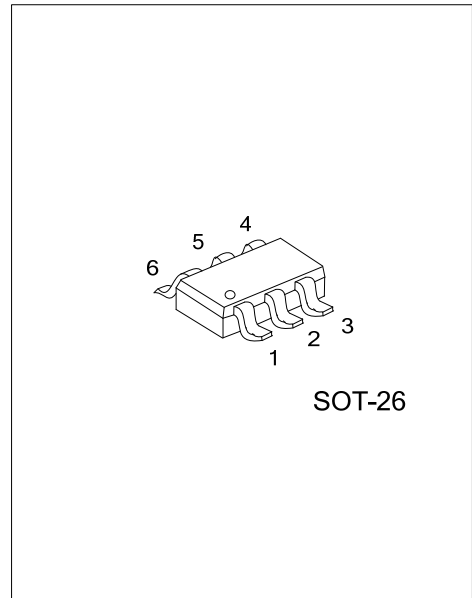
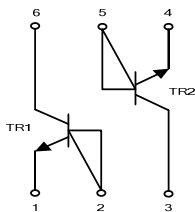
## DUAL TRANSISTOR

### GENERAL PURPOSE DUAL TRANSISTOR

■ FEATURES

- \* \*Two MMBT2222A chips in an SMT package.
- \* Transistor elements are independent, eliminating interference.
- \* High collector current. IC=500mA.
- \* Mounting cost an area can be cut in half.

■ EQUIVALENT CIRCUITS



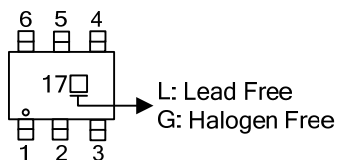
■ ORDERING INFORMATION

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
IMX17L-AG6-R	IMX17G-AG6-R	SOT-26	E1	B1	C2	E2	B2	C1	Tape Reel

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>IMX2L-AG6-R</p> <p>(1) Packing Type (2) Package Type (3) Lead Free</p>	<p>(1) R: Tape Reel (2) AG6: SOT-26 (3) G: Halogen Free, L: Lead Free</p>
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■ MARKING



■ ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ )

PARAMETER	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter-Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	500	mA
Collector Power Dissipation	$P_D$	300 (TOTAL)	mW
Junction Temperature	$T_J$	150	$^\circ\text{C}$
Storage Temperature	$T_{STG}$	-55~+150	$^\circ\text{C}$

Note: 1. 200mW per element must not be exceeded.

2. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

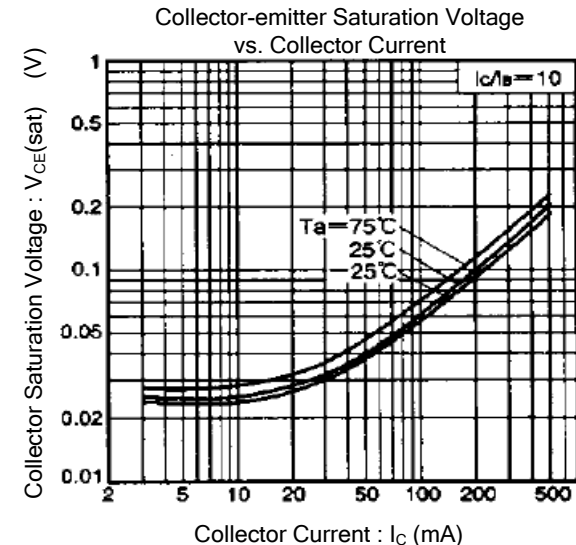
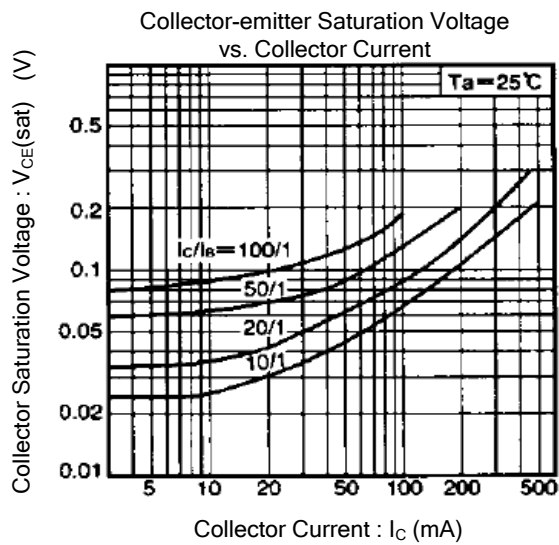
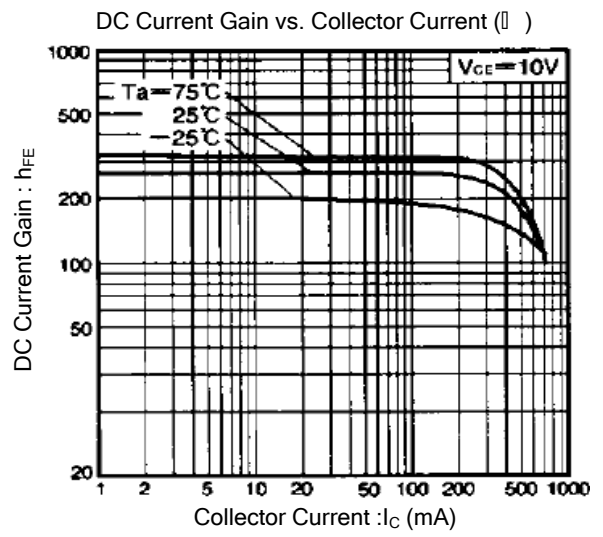
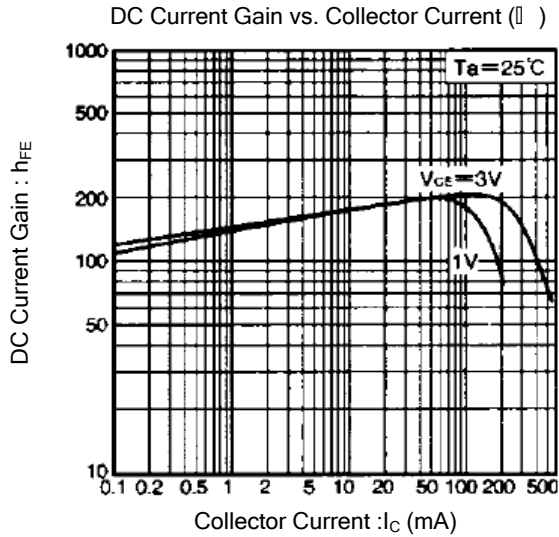
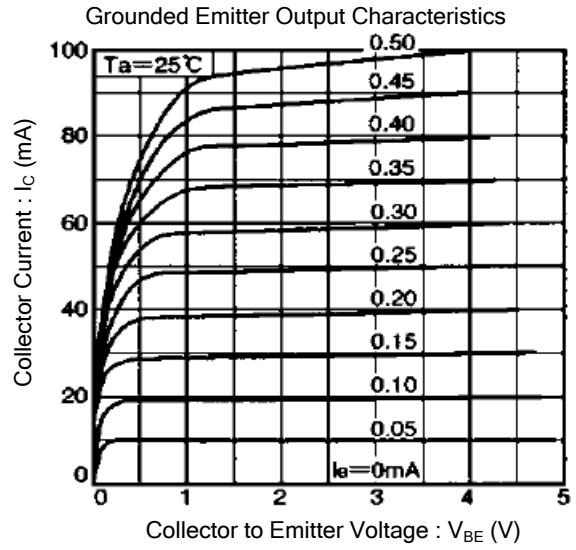
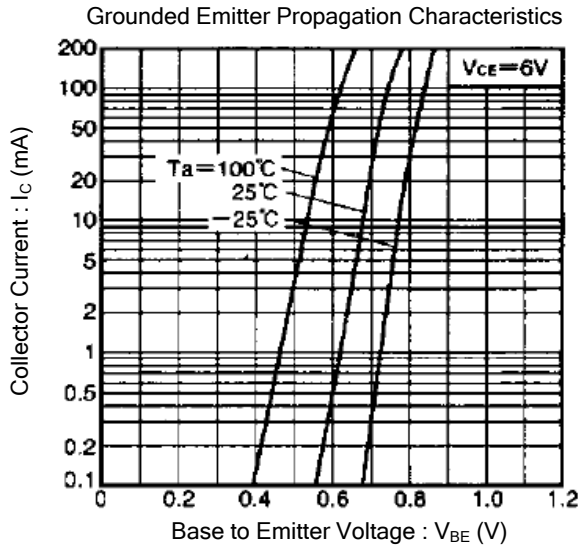
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

■ ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ )

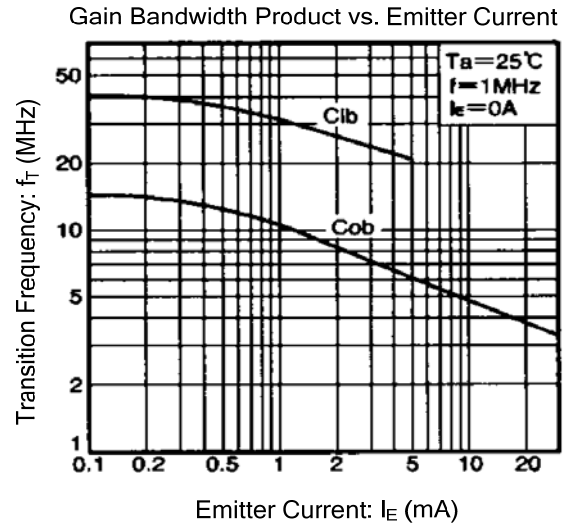
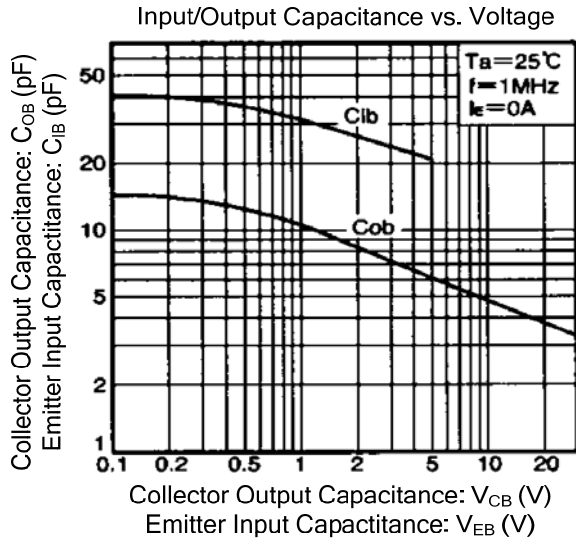
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=100\mu\text{A}$	60			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1\text{mA}$	50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=100\mu\text{A}$	5			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=30\text{V}$			0.1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=4\text{V}$			0.1	$\mu\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=500\text{mA}, I_B=50\text{mA}$			0.6	V
DC Current Transfer Ratio	$h_{FE}$	$V_{CE}=3\text{V}, I_C=100\text{mA}(\text{note})$	120		390	
Transition Frequency (Note)	$f_T$	$V_{CE}=5\text{V}, I_E=-20\text{mA}, f=100\text{MHz}$		250		MHz
Output Capacitance	$C_{OB}$	$V_{CB}=10\text{V}, I_E=0\text{A}, f=1\text{MHz}$		7		pF

Note: Measured using pulse current.

■ ELECTRICAL CHARACTERISTIC CURVES



■ ELECTRICAL CHARACTERISTIC CURVES(Cont.)



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