



**IMX2**

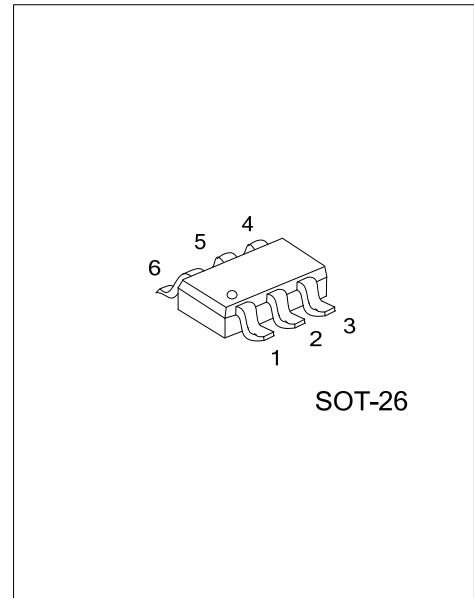
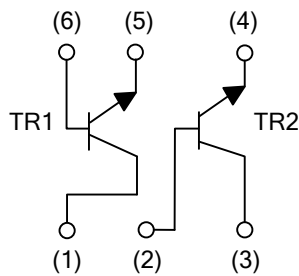
**DUAL TRANSISTOR**

**NPN GENERAL PURPOSE  
DUAL TRANSISTOR**

■ **FEATURES**

\* Two independently operating NPN transistors.

■ **EQUIVALENT CIRCUITS**



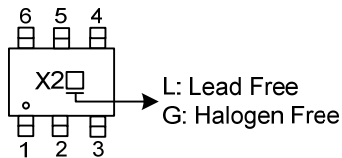
■ **ORDERING INFORMATION**

Ordering Number		Package	Pin Assignment						Packing
Lead Free	Halogen Free		1	2	3	4	5	6	
IMX2L-AG6-R	IMX2G-AG6-R	SOT-26	C1	B2	C2	E2	E1	B1	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	$V_{EBO}$	7	V
Collector Current	$I_C$	150	mA
Collector Power Dissipation	$P_C$	300 (Note1)	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	$BV_{CBO}$	$I_C=50\mu\text{A}$	60			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=1\text{mA}$	50			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=50\mu\text{A}$	7			V
Collector Cut-Off Current	$I_{CBO}$	$V_{CB}=60\text{V}$			0.1	$\mu\text{A}$
Emitter Cut-Off Current	$I_{EBO}$	$V_{EB}=7\text{V}$			0.1	$\mu\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C / I_B = 50\text{mA}/5\text{mA}$			0.4	V
DC Current Transfer Ratio	$h_{FE}$	$V_{CE}=6\text{V}, I_C=1\text{mA}$	120		560	
Transition Frequency (Note)	$f_T$	$V_{CE}=12\text{V}, I_E=-2\text{mA}, f=100\text{MHz}$		180		MHz
Output Capacitance	$C_{OB}$	$V_{CB}=12\text{V}, I_E=0\text{A}, f=1\text{KHz}$		2	3.5	pF

Note: Transition frequency of the device.

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