

IMZ2A

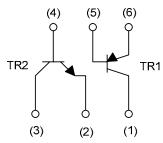
DUAL TRANSISTOR

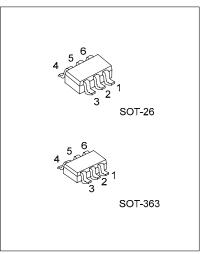
POWER MANAGEMENT (DUAL TRANSISTOR)

FEATURES

* Both a 2SA1037AK chip and 2SC2412K chip in a SMT package.

EQUIVALENT CIRCUITS





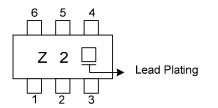
*Pb-free plating product number: IMZ2AL

ORDERING INFORMATION

Ordering Number		Dookogo	Pin Assignment					Deaking		
Normal	Lead Free Plating	Package	1	2	3	4	5	6	Packing	
IMZ2A-AG6-R	IMZ2AL-AG6-R	SOT-26	C1	E2	C2	B2	B1	E1	Tape Reel	
IMZ2A-AL6-R	IMZ2AL-AL6-R	SOT-363	C1	E2	C2	B2	B1	E1	Tape Reel	

	1)Packing Type 2)Package Type	(1) R: Tape Reel (2) AG6: SOT-26, AL6: SOT-363
(3	3)Lead Plating	(3) L: Lead Free Plating, Blank: Pb/Sn

MARKING



IMZ2A

■ ABSOLUTE MAXIMUM RATINGS (Ta=25)

PARAMETER	SYMBOL	LIN	UNIT	
PARAMETER	STINDUL	TR1 TR2		
Collector-Base Voltage	V _{CBO}	-60	60	V
Collector-Emitter Voltage	V _{CEO}	-50	50	V
Emitter-Base Voltage	V _{EBO}	-6	7	V
Collector Current	Ι _C	-150	150	mA
Collector Power Dissipation (Total)	Pc	300 (Note 1)		mW
Junction Temperature	TJ	150		°C
Storage Temperature	T _{STG}	-55~+150		°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 (Ta=25)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
TR1		_				
Collector-Base Breakdown Voltage	BV _{CBO}	Ic= -50μA	-60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	Ic= -1mA	-50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = -50μA	-6			V
Collector Cut-Off Current	I _{CBO}	V _{CB} = -60V			-0.1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} = -6V			-0.1	μA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	Ic / I _B = -50mA/-5mA			-0.5	V
DC Current Transfer Ratio	h _{FE}	V _{CE} = -6V, Ic= -1mA	120		560	-
Transition Frequency	f⊤	V _{CE} =-12V, I _E =2mA, f=100MHz (Note)		140		MHz
Output Capacitance	Cob	V_{CB} = -12V,I _E =0A, f=1MHz		4	5	рF
TR2						
Collector-Base Breakdown Voltage	BV CBO	Ic=50μA	60			V
Collector-Emitter Breakdown Voltage	BV _{CEO}	Ic= 1mA	50			V
Emitter-Base Breakdown Voltage	BV _{EBO}	I _E = 50μΑ	7			V
Collector Cut-Off Current	I _{CBO}	V _{CB} =60V			0.1	μA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =7V			0.1	μA
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	$Ic / I_B = 50 mA/5 mA$			0.4	V
DC Current Transfer Ratio	h _{FE}	V _{CE} = 6V, Ic= 1mA	120		560	
Transition Frequency	f⊤	V _{CE} =12V, I _E =-2mA, f=100MHz (Note)		180	-	MHz
Output Capacitance	Cob	V _{CB} = 12V, I _E =0A, f=1MHz		2	3.5	рF

Note: Transition frequency of the device.

UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

