UNISONIC TECHNOLOGIES CO., LTD

2SD2212

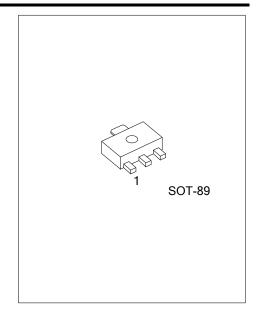
Preliminary

NPN SILICON TRANSISTOR

HIGH GAIN AMPLIFIER TRANSISTOR (DARLINGTON)

FEATURES

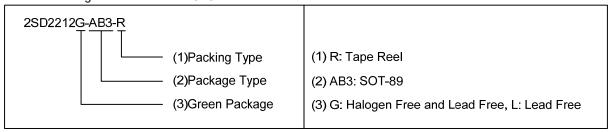
- * Built-in zener diode between collector and base
- * Strong protection against reverse surges due to "L" loads
- * Built-in resistor between base and emitter
- * Built-in damper diode



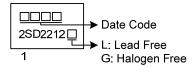
ORDERING INFORMATION

Ordering Number		Dealer	Pin Assignment			Da alaina	
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SD2212L-AB3-R	2SD2212G-AB3-R	SOT-89	В	С	Е	Tape Reel	

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



MARKING



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■ ABSOLUTE MAXIMUM RATINGS (T_A = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT	
Collector-Base Voltage	V _{CBO}	60	V	
Collector-Emitter Voltage	Vceo	60	V	
Emitter-Base Voltage	V _{EBO}	6	V	
Collector Current	Ic	2	Α	
Collector Current (Pulse)	ICP	3 (Note 2)	Α	
Collector Dissipation (Note 2)	Pc	0.5	W	
Junction Temperature	TJ	+150	°C	
Storage Temperature	T _{STG}	-55 ~ +150	°C	

Notes: 1. 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.

2. Single pulse (Pw) =100ms.

■ ELECTRICAL CHARACTERISTICS (T_A = 25°C, unless otherwise specified)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector Cut-Off Current	Ісво	V _{CB} =40V, I _E =0			1.0	μΑ
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5.0V, I _C =0			3.0	nA
DC Current Gain	h _{FE}	V _{CE} =2.0V, I _C =1A	1000		10000	
Collector to Emitter Saturation Voltage	V _{CE(SAT)}	I _C =1.0A, I _B =1mA			1.5	V
Gain Bandwidth Product	f _T	V _{CE} =5.0V, I _E =-0.1A, f=30MHz		80		MHz

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