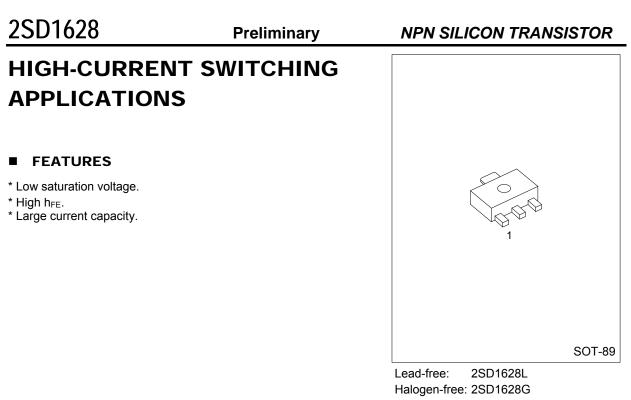


UTC UNISONIC TECHNOLOGIES CO., LTD



ORDERING INFORMATION

Ordering Number			Pin Assignment			Decking		
Normal	Lead Free Plating	Halogen Free	Package	1	2	3	Packing	
2SD1628-x-AB3-R	2SD1628L-x-AB3-R	2SD1628G-x-AB3-R	SOT-89	В	С	Е	Tape Reel	

2SD1628L-x-AB3-R (1)Packing Type (2)Package Type	(1) R: Tape Reel (2) AB3: SOT-89
(3)Rank (4)Lead Plating	 (3) x: refer to Classification of h_{FE1} (4) G: Halogen Free, L: Lead Free Plating, Blank: Pb/Sn

■ ABSOLUATE MAXIUM RATINGS (Ta = 25°C)

PARAMETER		SYMBOL	RATINGS	UNIT	
Collector-Base Voltage		V _{CBO}	60	V	
Collector-Emitter Voltage		V _{CEO}	20	V	
Emitter-Base Voltage		V _{EBO}	6	V	
	DC	lc	5	А	
Collector Current	Pulse	I _{CP}	8	Α	
Collector Dissipation	<u>.</u>	Pc	0.5	W	
Junction Temperature		TJ	150	°C	
Storage Temperature		T _{STG}	-55~+150	°C	

Note: 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°C, unless otherwise specified)

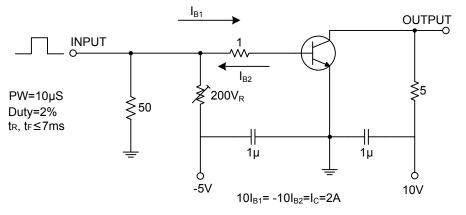
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =3A, I _B =60mA			500	mV
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =3A, I _B =60mA			1.5	V
Collector Cut-Off Current	I _{CBO}	V _{CB} =50V, I _E =0			100	nA
Emitter Cut-Off Current	I _{EBO}	V _{EB} =5V, I _C =0			100	nA
DC Current Gain	h _{FE1}	V _{CE} =2V, I _C =0.5A	120		560	
	h _{FE2}	V _{CE} =2V, I _C =3A	95			
Output Capacitance	Cob	V _{CB} =10V, f =1MHz		45		рF
Transition Frequency	f⊤	V _{CE} =10V, I _C =50mA		120		MHz
Turn On Time	t _{ON}			30		ns
Storage Time	ts	See specified Test circuit		300		ns
Fall Time	t _F			40		ns

CLASSIFICATION OF h_{FE1}

RANK	E	F	G
RANGE	120 ~ 200	160 ~ 320	280 ~ 560



SWITCHING TIME TEST CIRCUIT



Unit (Resistance:Ω, Capacitance:F)

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