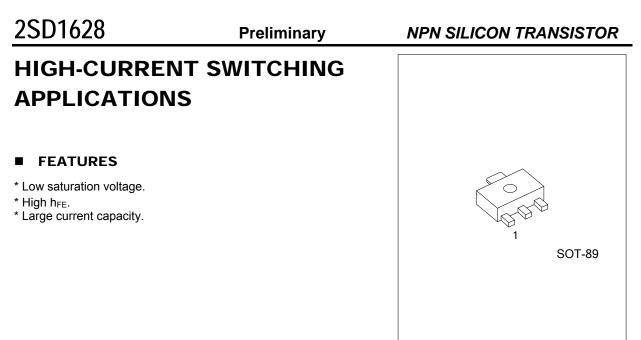


UTC UNISONIC TECHNOLOGIES CO., LTD



ORDERING INFORMATION

Ordering Number		Deekege	Pin Assignment			Deaking	
Lead Free	Halogen Free	Package 1		2	3	Packing	
2SD1628L-x-AB3-R	2SD1628G-x-AB3-R	SOT-89	В	С	Е	Tape Reel	
Note: Pin Assignment: E: Emitter B: Base C: Collector							
2SD1628 <u>L-x-AB3-R</u>	 (1) R: Tape Reel (2) AB3: SOT-89 (3) x: refer to Classification of h_{FE1} (4) L: Lead Free, G: Halogen Free and Lead Free 						

MARKING



■ ABSOLUATE MAXIUM RATINGS (T_A= 25°C, unless otherwise specified)

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	
Collector Current	DC	Ιc	5	А	
	Pulse	I _{CP}	8	А	
Collector Dissipation		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 (T_A= 25°C, unless otherwise specified)

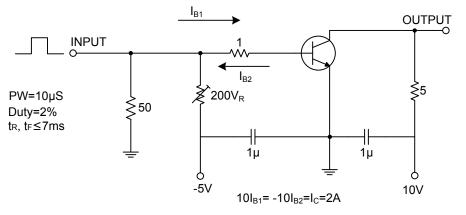
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Saturation Voltage	V _{CE(SAT)}	I _C =3A, I _B =60mA			500	mV
Base-Emitter Saturation Voltage	V _{BE(SAT)}	I _C =3A, I _B =60mA			1.5	V
Collector Cut-Off Current	I _{CBO}	V _{CB} =50V, I _E =0			100	nA
Emitter Cut-Off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$			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	C _{ob}	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⊦			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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