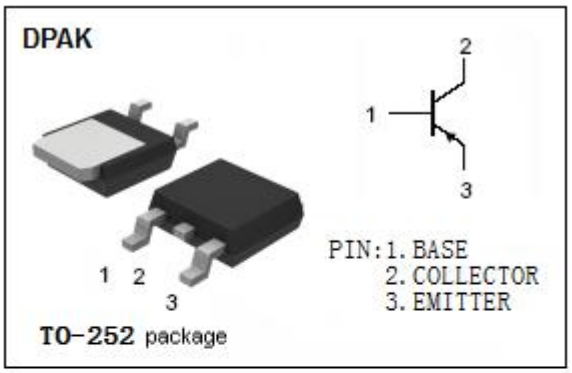
isc Silicon PNP Power Transistor — 2SAR586D

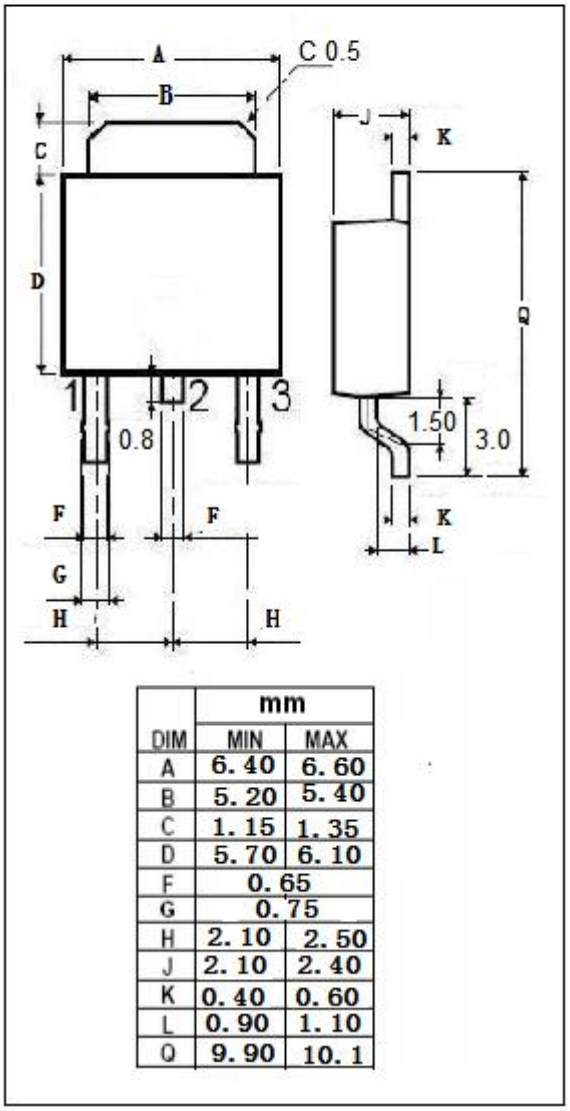
DESCRIPTION

- Suitable for middle power drivers
- Low $V_{CE(sat)}$
  $V_{CE(sat)}$≤-0.32V@(I_C=-2A,I_B=-100mA)
- Complementary NPN types:2SCR586D
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

- Low frequency amplifier



DIM	mm MIN	mm MAX
A	6.40	6.60
B	5.20	5.40
C	1.15	1.35
D	5.70	6.10
F	0.65	
G	0.75	
H	2.10	2.50
J	2.10	2.40
K	0.40	0.60
L	0.90	1.10
Q	9.90	10.1

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-6	V
I_C	Collector Current-Continuous	-5	A
I_{CM}	Collector Current-Peak	-10	A
P_C	Collector Power Dissipation @ T_C=25℃	10	W
T_J	Junction Temperature	150	℃
T_{stg}	Storage Temperature Range	-55~150	℃

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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
BV_{CBO}	Collector-Base breakdown voltage	I_C=-100uA	-80			V
BV_{CEO}	Collector-Emitter breakdown voltage	I_C=-1mA	-80			V
BV_{EBO}	Emitter-Base breakdown voltage	I_E=-100uA	-6			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	I_C= -2A; I_B= -100mA			-0.32	V
I_{CBO}	Collector Cutoff Current	V_{CB}= -80V; I_E= 0			-1.0	μA
I_{EBO}	Emitter Cutoff Current	V_{EB}= -4V; I_C= 0			-1.0	μA
h_{FE}	DC Current Gain	I_C= -0.5A; V_{CE}= -3V	120		390	
C_{OB}	Output Capacitance	I_E= 0; V_{CB}= -10V; f= 1.0MHz		100		pF
f_T[NOTE]	Current-Gain—Bandwidth Product	I_C= -0.5A; V_{CE}= -10V,f= 100MHz		200		MHz

NOTE:Pulsed