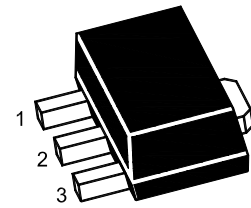


2SA2060U

PNP Silicon Epitaxial Planar Transistor

for high speed switching, DC-DC converter
and strobe applications



1.Base 2.Collector 3.Emitter
SOT-89 Plastic Package

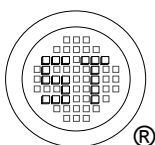
Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	50	V
Collector Emitter Voltage	$-V_{CEO}$	50	V
Emitter Base Voltage	$-V_{EBO}$	7	V
Collector Current (DC)	$-I_C$	2	A
Collector Current (Pulse)	$-I_{CP}$	3.5	A
Base Current	$-I_B$	200	mA
Collector Power Dissipation	P_{tot}	0.5 1 ¹⁾	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55 to + 150	$^\circ\text{C}$

¹⁾ Mounted on a ceramic substrate (250 mm² x 0.8 t)

Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE} = 2\text{ V}$, $-I_C = 300\text{ mA}$ at $-V_{CE} = 2\text{ V}$, $-I_C = 1\text{ A}$	h_{FE} h_{FE}	200 100	- -	500 -	- -
Collector Base Cutoff Current at $-V_{CB} = 50\text{ V}$	$-I_{CBO}$	-	-	100	nA
Emitter Base Cutoff Current at $-V_{EB} = 7\text{ V}$	$-I_{EBO}$	-	-	100	nA
Collector Emitter Breakdown Voltage at $-I_C = 10\text{ mA}$	$-V_{(BR)CEO}$	50	-	-	V
Collector Emitter Saturation Voltage at $-I_C = 1\text{ A}$, $-I_B = 33\text{ mA}$	$-V_{CE(sat)}$	-	-	0.2	V
Base Emitter Saturation Voltage at $-I_C = 1\text{ A}$, $-I_B = 33\text{ mA}$	$-V_{BE(sat)}$	-	-	1.1	V
Collector Output Capacitance at $-V_{CB} = 10\text{ V}$, $f = 1\text{ MHz}$	C_{ob}	-	20	-	pF
Rise Time at $-V_{CC} \approx 30\text{ V}$, $I_{B1} = -I_{B2} = 33\text{ mA}$, $R_L = 30\ \Omega$	t_r	-	60	-	ns
Storage Time at $-V_{CC} \approx 30\text{ V}$, $I_{B1} = -I_{B2} = 33\text{ mA}$, $R_L = 30\ \Omega$	t_{stg}	-	250	-	ns
Fall Time at $-V_{CC} \approx 30\text{ V}$, $I_{B1} = -I_{B2} = 33\text{ mA}$, $R_L = 30\ \Omega$	t_f	-	90	-	ns



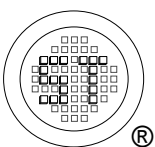
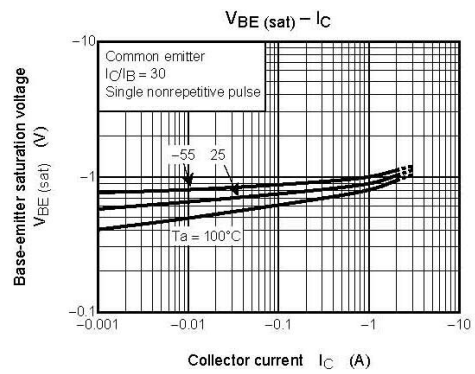
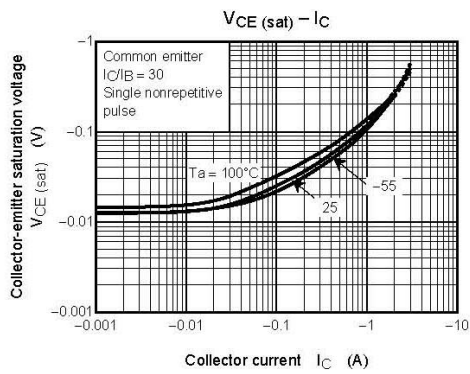
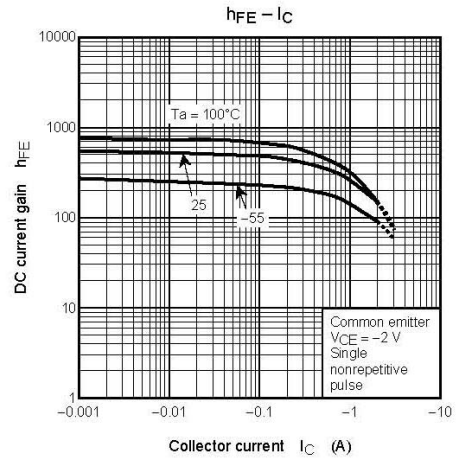
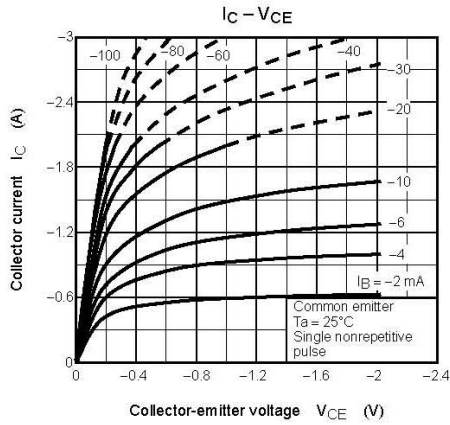
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ISO/TS 16949 : 2009 Certificate No. 180713000
ISO14001 : 2004 Certificate No. 7116
ISO 9001 : 2008 Certificate No. 50713410
BS-OHSAS 18001 : 2007 Certificate No. 7116
IECQ QC 080000 Certificate No. PFC:RSP4-1483-1

Dated: 20/01/2016 Rev: 03

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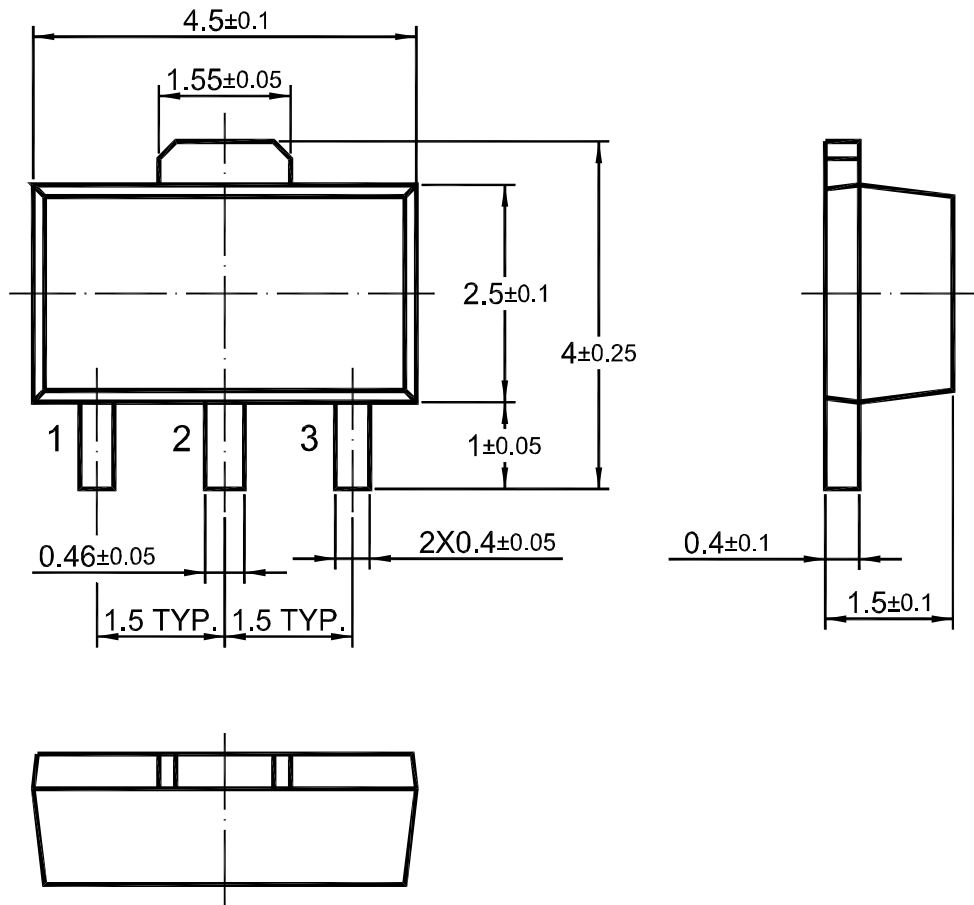


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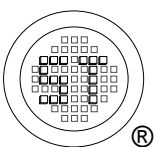


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SOT-89 PACKAGE OUTLINE



Dimensions in mm



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