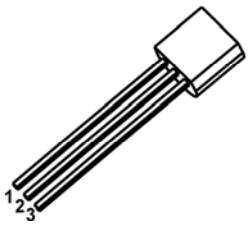
KSA643 TRANSISTOR (PNP)

TO-92

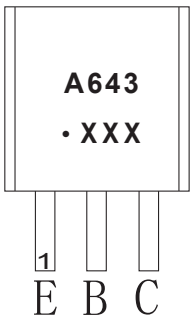
1. EMITTER
2. BASE
3. COLLECTOR



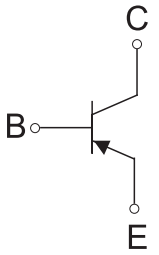
FEATURE

- Collector dissipation
- Complement to KSD261

MARKING



Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
KSA643	TO-92	Bulk	1000pcs/Bag

MAXIMUM RATINGS (T_a=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-40	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-500	mA
P_C	Collector Power Dissipation	500	mW
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

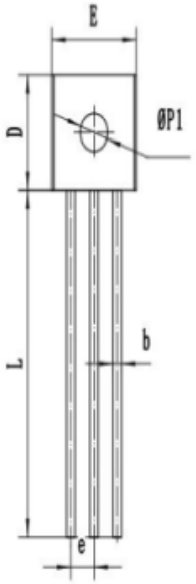
T_a=25℃ unless otherwise specified

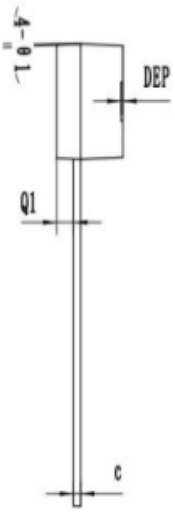
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C= -100uA,I_E=0	-40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C= -10mA , I_B=0	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E= -10uA, I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}= -25 V , I_E=0			-0.2	uA
Emitter cut-off current	I_{EBO}	V_{EB}= -3 V , I_C=0			-0.2	uA
DC current gain	h_{FE}*	V_{CE}= -1 V, I_C= -100mA	40		400	
Collector-emitter saturation voltage	V_{CE}(sat)*	I_C= -500mA, I_B=- 50mA			-0.4	V
Base-emitter saturation voltage	V_{BE}(sat)*	I_C= -500mA, I_B=- 50mA			-1.3	V

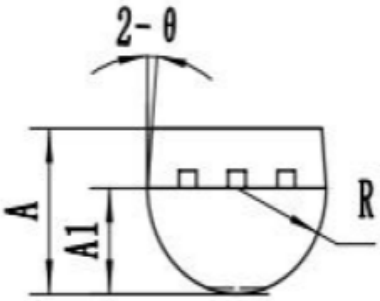
* PULSE TEST

CLASSIFICATION OF h_{FE}

Rank	R	O	Y	G
Range	40-80	70-140	120-240	200-400







SYMBOL	MM		
	MIN	NOM	MAX
*A	3.00	3.25	3.50
A1	2.20	2.30	2.40
*b	0.40	0.45	0.50
*c	0.25	0.30	0.35
*D	4.50	4.60	4.70
*E	4.50	4.60	4.70
*e	1.22	1.27	1.32
*L	14.00	14.30	14.60
R	2.20	2.30	2.40
Q1	0.85	0.90	0.95
θ	3°	5°	7°
Ø1	1°	3°	5°
ØP1	1.40	1.50	1.60
DEP	0.05	0.10	0.20
带*为检验尺寸			