

isc Silicon NPN Power Transistor

KSD880W

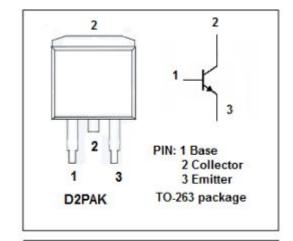
DESCRIPTION

- Complement to KSB834W
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

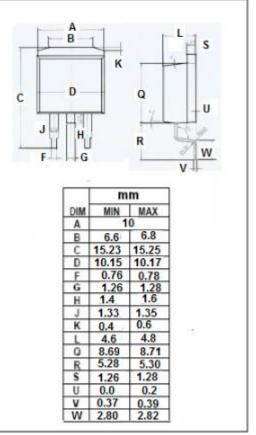
• Low frequency power amplifier





ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
Ic	Collector Current-Continuous	3	А
Pc	Total Power Dissipation @ Ta=25℃	1.5	W
Pc	Total Power Dissipation @ Tc=25℃	30	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature Range	-55~150	°C





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = 3.0A; I _B = 300mA			1	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 0.5A; V _{CE} =5V			1	V
Ісво	Collector Cutoff Current	V _{CB} = 60V; I _E = 0			100	μА
I _{EBO}	Emitter Cutoff Current	V _{EB} = 7V; I _C = 0			100	μ А
h _{FE1}	DC Current Gain	I _C = 0.5A; V _{CE} = 5V	60		200	
h _{FE2}	DC Current Gain	Ic= 3A; V _{CE} = 5V	20			
f _T	Current-Gain—Bandwidth Product	I _C = 0.5A; V _{CE} = 5V		9		MHz
Cob	Collector output capacitance	V _{CB} =10V ,I _E =0,f=1MHz		150		pF

♦ h_{FE-1} Classifications

0	Y
60-120	100-200

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