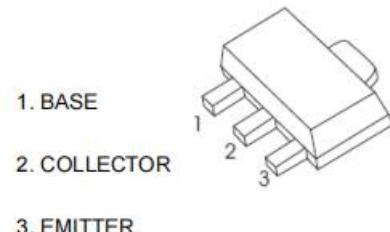


SOT-89-3L Bipolar Transistor 双极型三极管**■Features 特点****NPN Low Saturation Voltage 低饱和压降****■Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Collector-Base Voltage 集电极基极电压	V _{CBO}	60	V
Collector-Emitter Voltage 集电极发射极电压	V _{CEO}	50	V
Emitter-Base Voltage 发射极基极电压	V _{EBO}	6	V
Collector Current 集电极电流	I _C	2000	mA
Power dissipation 耗散功率	P _C (T _a =25°C)	500	mW
Thermal Resistance Junction-Ambient 热阻	R _{θJA}	250	°C/W
Junction and Storage Temperature 结温和储藏温度	T _J , T _{stg}	-55 to +150	°C

■Device Marking 产品打标

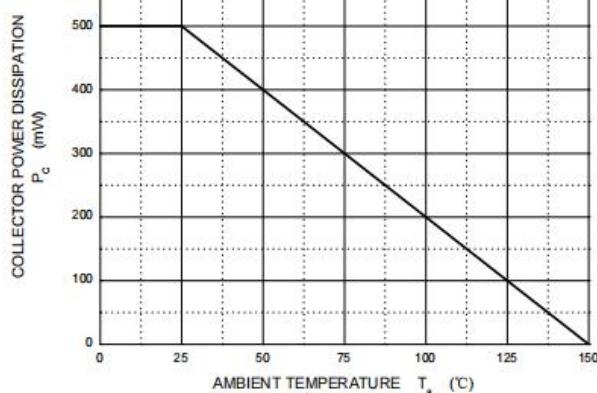
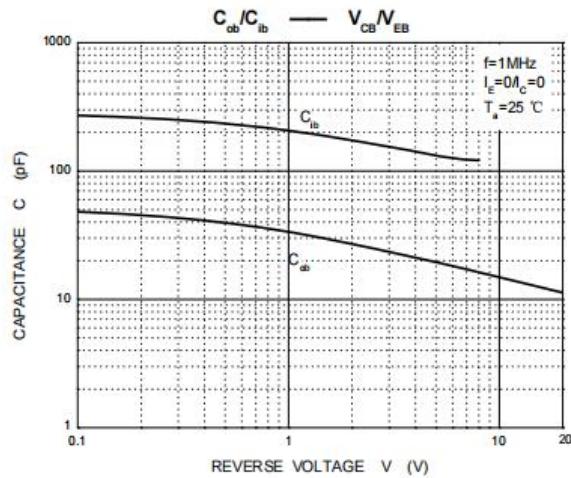
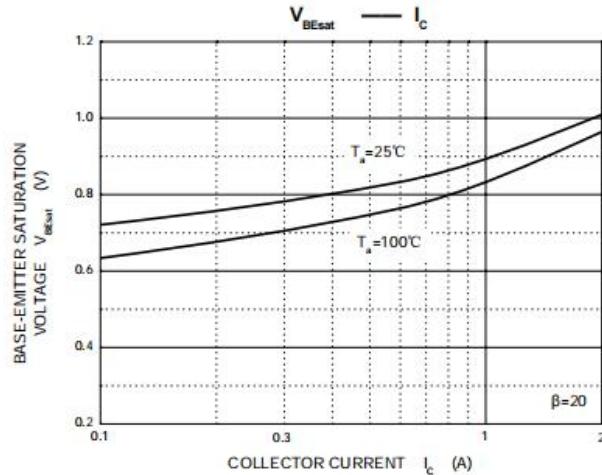
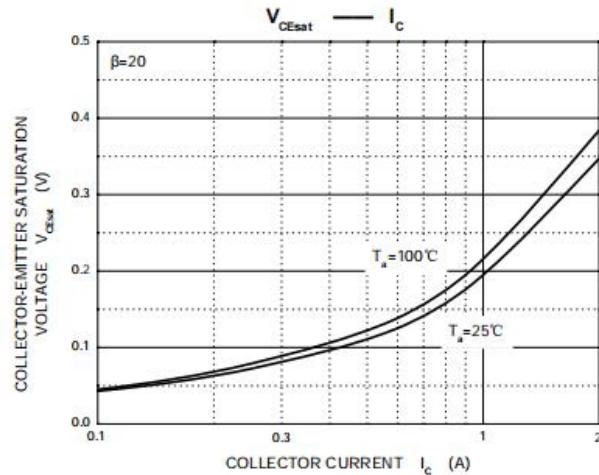
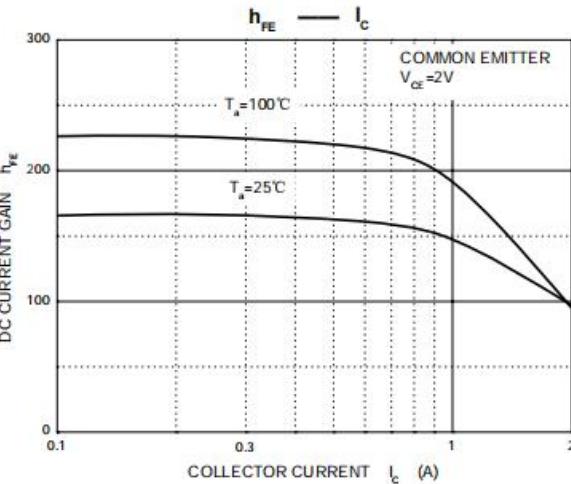
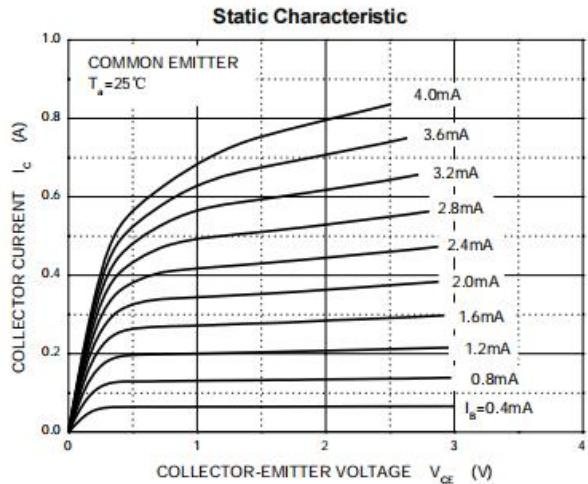
H _{FE}	82-180(P)	120-270(Q)	180-390(R)
Mark	DKP	DKQ	DKR

■ Electrical Characteristics 电特性

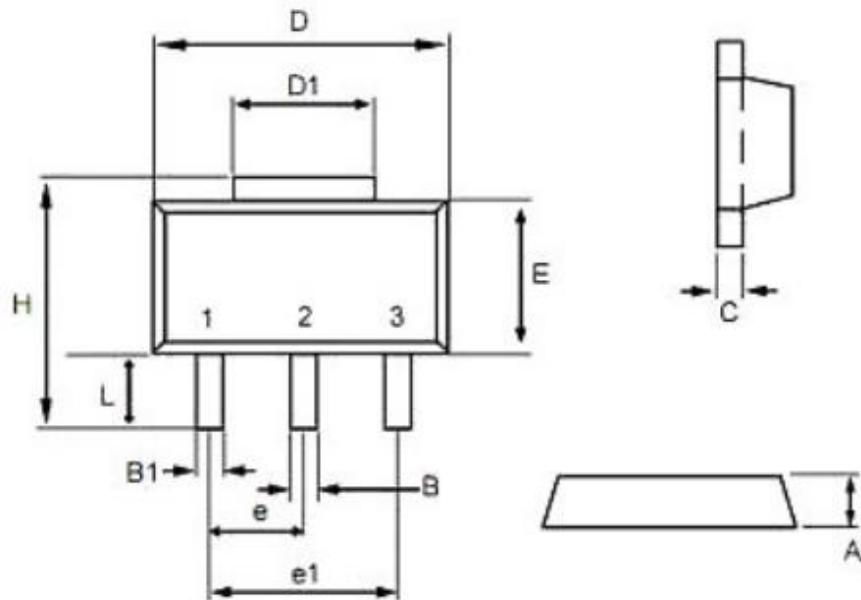
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector-Base Breakdown Voltage 集电极基极击穿电压 (Ic= 50μA, Ie=0)	BV _{CBO}	60	—	—	V
Collector-Emitter Breakdown Voltage 集电极发射极击穿电压 (Ic= 1mA, Ib=0)	BV _{CEO}	50	—	—	V
Emitter-Base Breakdown Voltage 发射极基极击穿电压 (Ie= 50μA, Ic=0)	BV _{EBO}	6	—	—	V
Collector-Base Leakage Current 集电极基极漏电流 (V _{CB} = 60V, Ie=0)	I _{CBO}	—	—	100	nA
Emitter-Base Leakage Current 发射极基极漏电流 (V _{EB} = 5V, Ic=0)	I _{EBO}	—	—	100	nA
DC Current Gain 直流电流增益 (V _{CE} = 2V, Ic= 500mA)	H _{FE}	82	—	390	
Collector-Emitter Saturation Voltage 集电极发射极饱和压降 (Ic= 1000mA, Ib= 50mA)	V _{CE(sat)}	—	—	350	mV
Base-Emitter Saturation Voltage 基极发射极饱和压降 (Ic= 1000mA, Ib= 50mA)	V _{BE(sat)}	—	—	1000	mV
Transition Frequency 特征频率 (V _{CE} = 2V, Ic= 500mA)	f _T	—	210	—	MHz
Output Capacitance 输出电容 (V _{CB} = 10V, Ie=0, f=1MHz)	C _{ob}	—	25	—	pF

■Typical Characteristic Curve 典型特性曲线



■ Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.40	1.60	0.055	0.063
B	0.40	0.56	0.016	0.022
B1	0.35	0.48	0.014	0.019
C	0.35	0.44	0.014	0.017
D	4.40	4.60	0.173	0.181
D1	1.35	1.83	0.053	0.072
e	1.45	1.55	0.057	0.061
e1	2.95	3.05	0.116	0.120
E	2.29	2.60	0.090	0.102
H	3.75	4.25	0.148	0.167
L	0.80	1.20	0.031	0.047