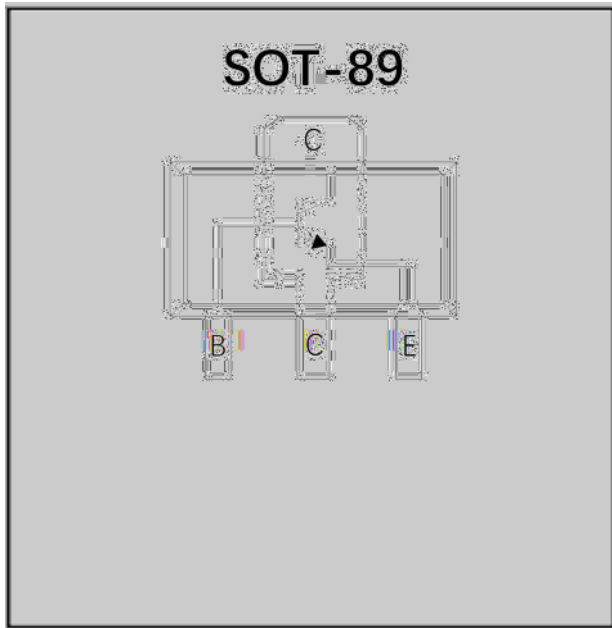




- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture sensitivity level 1
- Low collector-emitter saturation voltage

- : SOT-89
- Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking:

2SD1766-Q	DBQ
2SD1766-R	DBR

■ (Ta=25 - unless otherwise noted)

Minimum Collector-Emitter Voltage	V_{CE0}	V	$I_C=1mA, I_B=0$	32
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C=50uA, I_E=0$	40
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E=50uA, I_C=0$	5
Collector Current	I_C	A		2
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	- /W		250



(Ta=25 unless otherwise noted)

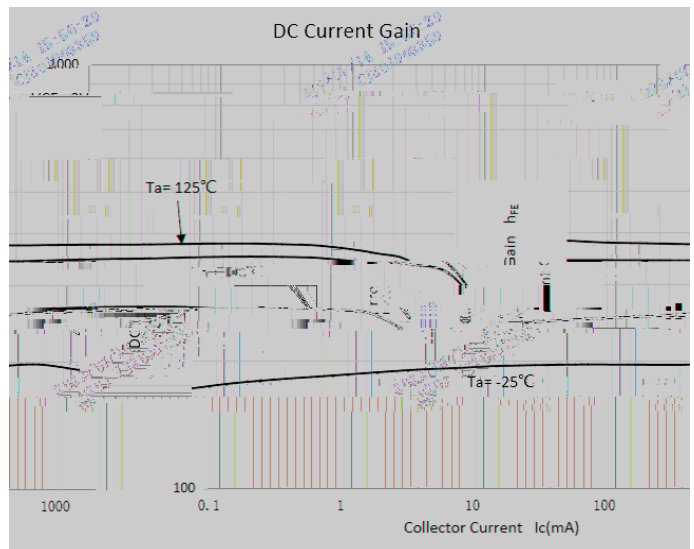
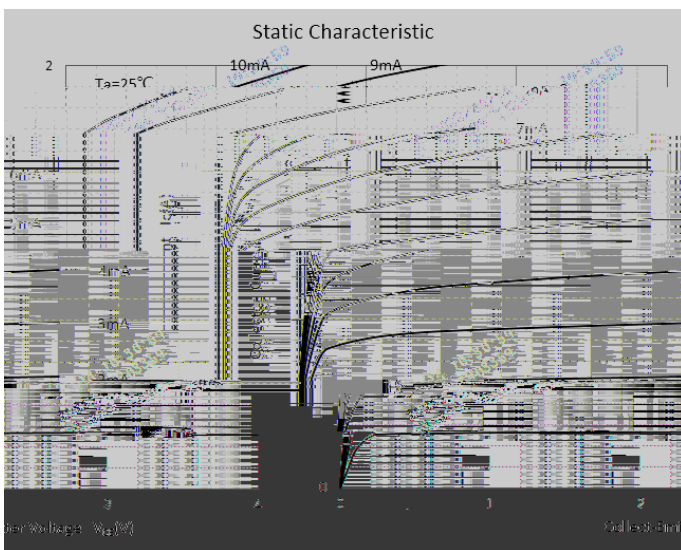
Collector-Emitter Voltage	V_{CEO}	V	$I_C=1mA, I_B=0$	32		
Collector-Base Voltage	V_{CBO}	V	$I_C=50\mu A, I_E=0$	40		
Emitter-Base Voltage	V_{EBO}	V	$I_E=50\mu A, I_C=0$	5		
Collector-Base cut-off current	I_{CBO}	μA	$V_{CB}=20V$			1
Emitter-Base cut-off current	I_{EBO}	μA	$V_{EB}=4V$			1
DC Current Gain	h_{FE}		$V_{CE}=3V, I_C=500mA$	120		390
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=2A, I_B=200mA$			0.8
Transition Frequency	f_T	MHz	$I_C=50mA, V_{CE}=5V, f=100MHz$		100	
Output Capacitance	C_{ob}	pF	$V_{CB}=10V, I_E=0, f=1MHz$		30	

(Example)

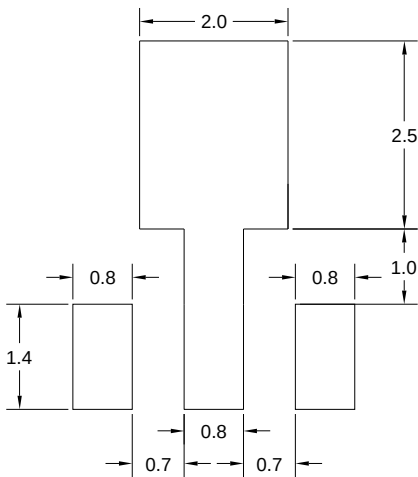
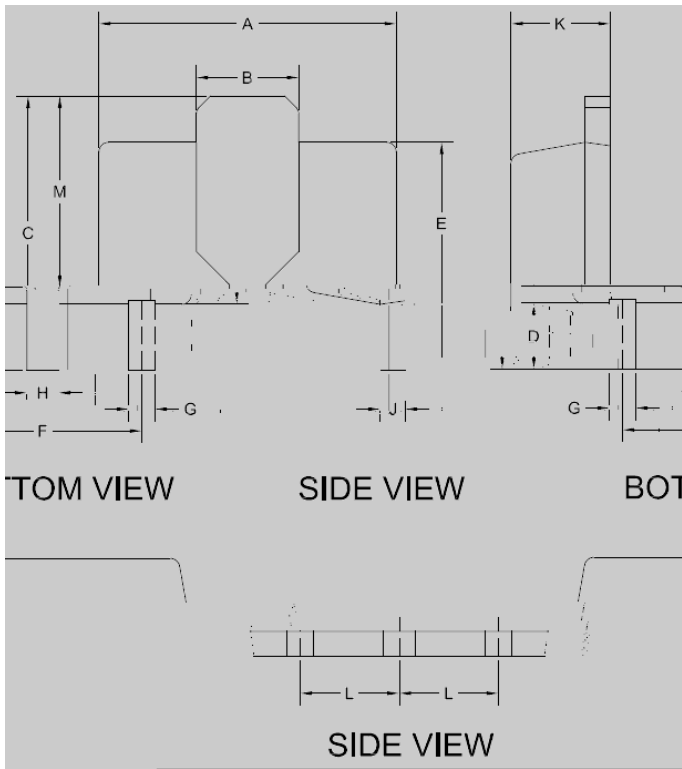
2SD1766	F2	Approximate 0.055	1000	8000	32000	7" reel

Range	120-270	180-390

(Typical)



6 6 <DQJ]KRX <DQJMLH (OHFWURQLF 7HFKQRORJ\ ZR \DQG MLH F
5HY)HE



UNIT:MM



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