

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:B772

(Ta=25 unless otherwise noted)

Minimum Collector-Emitter Voltage	V_{CEO}	V	$I_C=-10mA, I_B=0$	-30
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-40
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-6
Collector Current	I_C	A		-3
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	R_{JA}	/W		250
Operation Junction Temperature	T_j			-55 to +150
Storage Temperature	T_{stg}			-55 to +150



(Ta=25 unless otherwise noted)

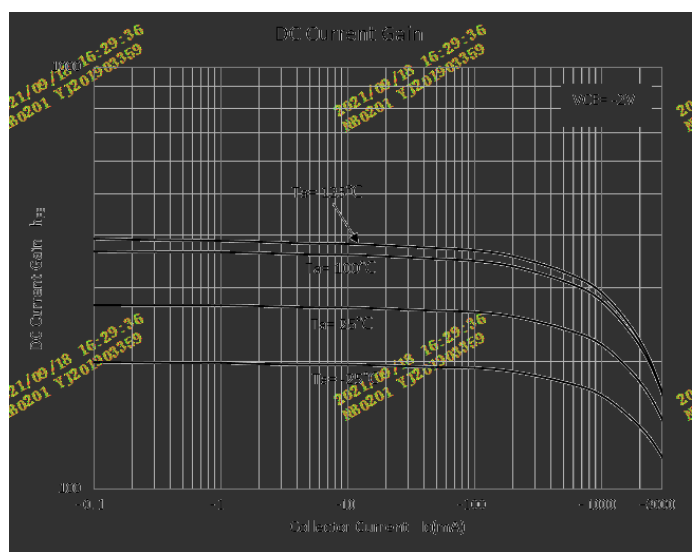
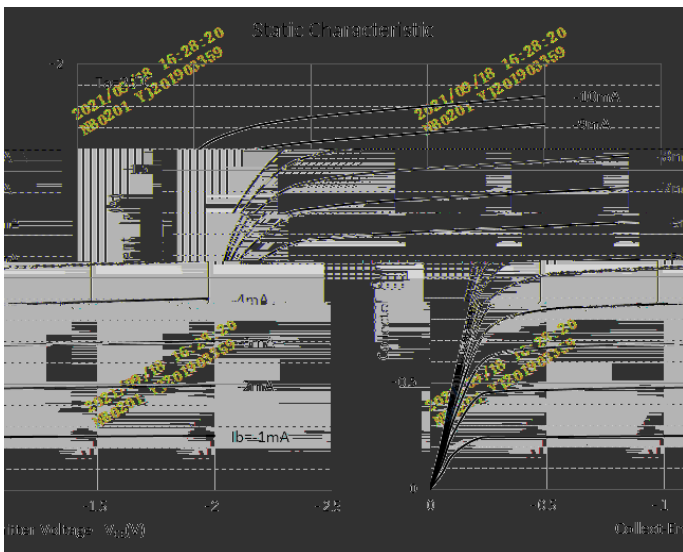
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Collector-Base Voltage	V_{CBO}	V	$I_C=-100\mu A, I_E=0$	-40		
Emitter-Base Voltage	V_{EBO}	V	$I_E=-100\mu A, I_C=0$	-6		
Collector-Base cut-off current	I_{CBO}	μA	$V_{CB}=-40V$			-1
Collector-Emitter cut-off current	I_{CEO}	μA	$V_{CE}=-30V$			-10
Emitter-Base cut-off current	I_{EBO}	μA	$V_{EB}=-6V$			-1
DC Current Gain	h_{FE}		$V_{CE}=-2V, I_C=-1A$	160		400
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=-2A, I_B=-200mA$			-0.5
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=-2A, I_B=-200mA$			-1.5
Transition Frequency	f_T	MHz	$I_C=-100mA, V_{CE}=-5V, f=10MHz$	80		

(Example)

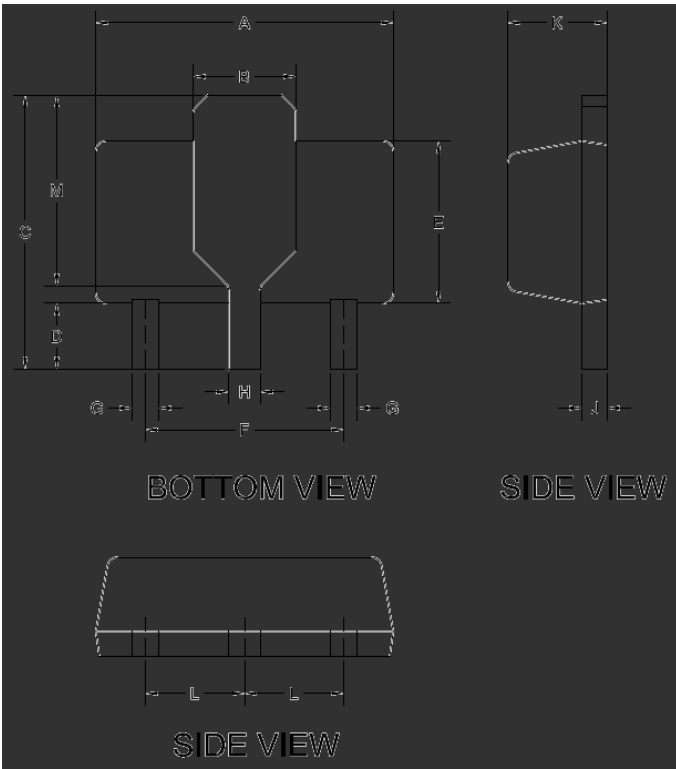
BD772	F2	Approximate 0.055	1000	8000	32000	7" reel
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Range	160-320	200-400
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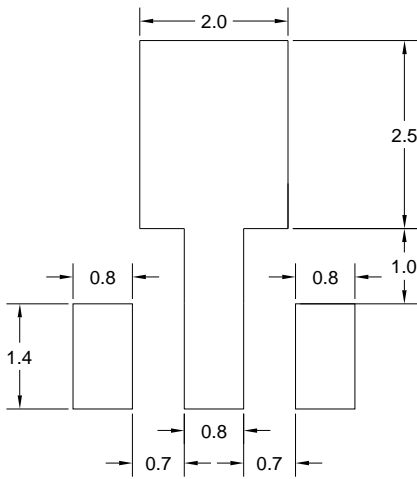
(Typical)







MAX.	CON.	TOLERANCES		MIN.
4.600	A	MIN.	MAX.	MIN.
		0.173	0.181	4.400
YP.	B	0.061 TYP.		1.550
4.250	C	0.155	0.167	3.940
1.200	D	0.031	0.047	0.900
2.600	E	0.094	0.102	2.400
YP.	F	0.118 TYP.		3.000
0.450	G	0.014	0.019	0.360
0.440	H	0.017	0.022	0.350
0.350	I	0.014	0.017	0.260
1.400	J	0.055	0.065	1.300
1.300	K	0.055	0.065	1.200
1.200	L	0.055	0.065	1.100
1.100	M	0.055	0.065	1.000



UNIT:MM



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