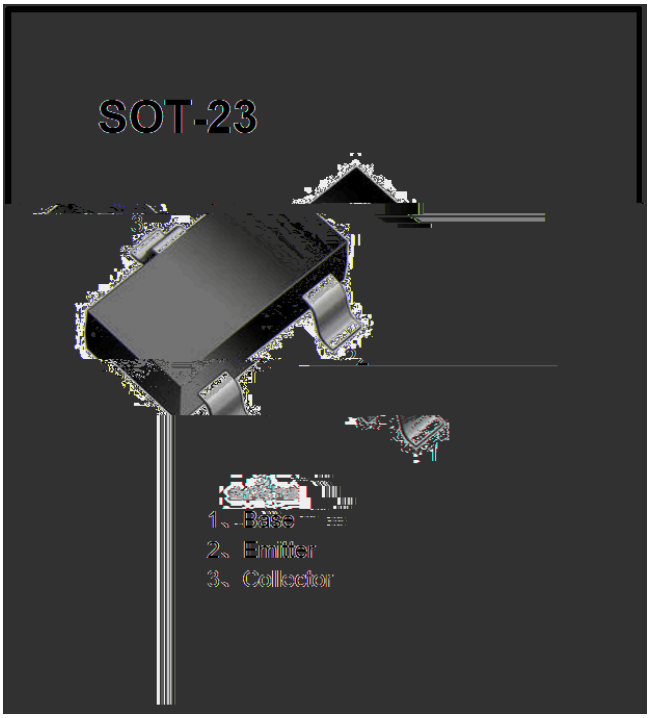
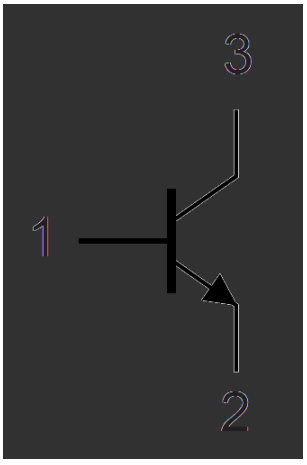
RoHS
COMPLIANT



- We declare that the material of product compliance with RoHS requirements and Halogen Free
- Surface mount package ideally suited for automatic insertion
- Moisture Sensitivity Level 1
- Low equivalent on-resisitance

- Package: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Marking: 491

■



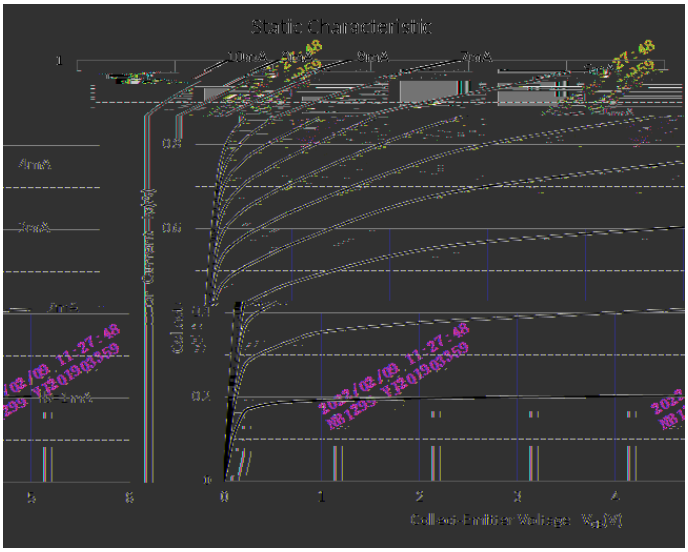
■ (Ta=25 Unless otherwise specified)

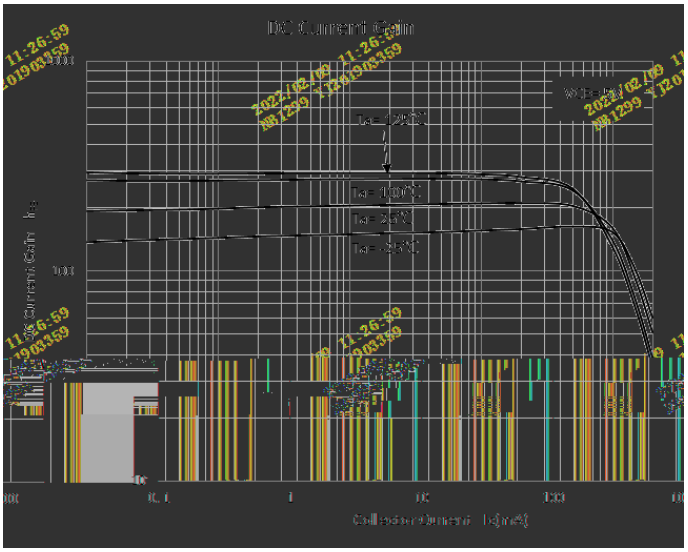
Collector-Base Voltage	V_{CBO}	V	IC=100μA,IE=0	80
Collector-Emitter Voltage	V_{CEO}	V	IC =10mA,IB=0	60
Emitter-Base Voltage	V_{EBO}	V	IE=100μA,IC=0	5
Collector Current	I_C	A		1
Collector Power Dissipation	P_C	mW		300
Thermal Resistance From Junction to Ambient	$R_{\theta JA}$			417
Operation Junction Temperature	T_J			150
Storage Temperature	T_{STG}			-55 to +150

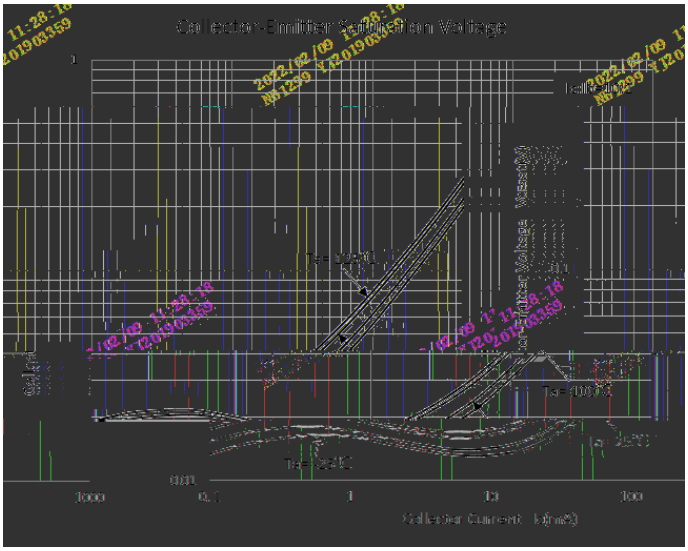
■ Ta=25 Unless otherwise specified

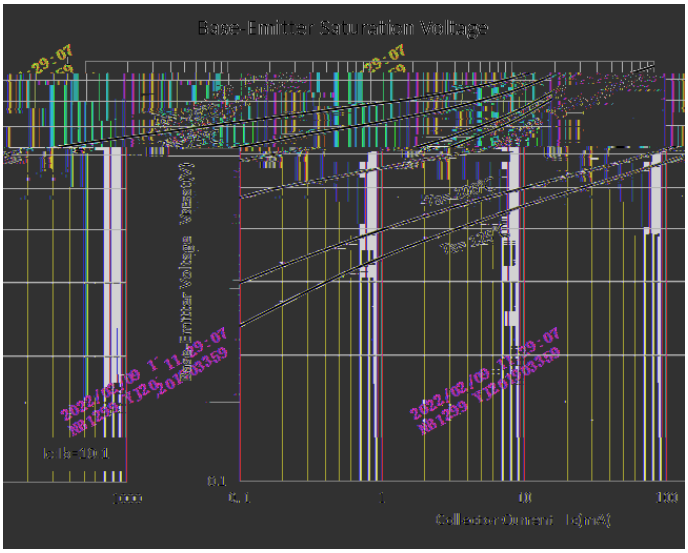
Collector-base breakdown voltage	$V_{(BR)CBO}$	V	IC=100μA,IE=0	80		
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	V	IC =10mA,IB=0	60		
Emitter-base breakdown voltage	$V_{(BR)EBO}$	V	IE=100μA,IC=0	5		
Collector-Base cut-off current	I_{CBO}	uA	V_{CB}=60 V ,IE=0			0.1
Emitter-Base cut-off current	I_{EBO}	uA	V_{EB}=4 V , IC=0			0.1
DC current gain	$h_{FE}1$		VCE=5V,IC=1mA	100		
	$h_{FE}2$		VCE=5V,IC=500mA	100		300
	$h_{FE}3$		VCE=5V,IC=1A	80		
	$h_{FE}4$		VCE=5V,IC=2A	30		
Collector-emitter saturation voltage	$V_{CE(sat)}$	V	IC=500mA,IB=50mA			0.25
		V	IC=1A,IB=100mA			0.5
Base-emitter saturation voltage	$V_{BE(sat)}$	V	IC=1A,IB=100mA			1.1
Base-emitter voltage	V_{BE}	V	VCE=5V,IC=1A			1
Transition frequency	f_T	MHz	VCE=10V, IC=50mA,f=100MHz	150		
Collector-Base Output Capacitance	Cob	pF	V_{CB}=10V ,IE=0, f=1MHz			10

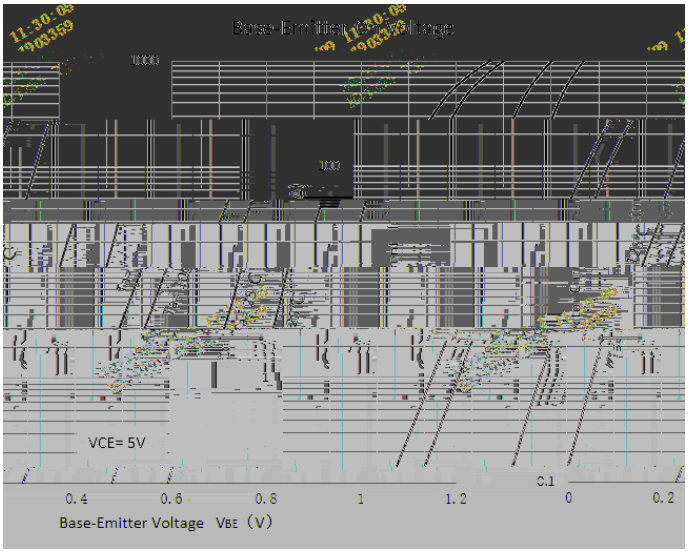
■ (Typical)

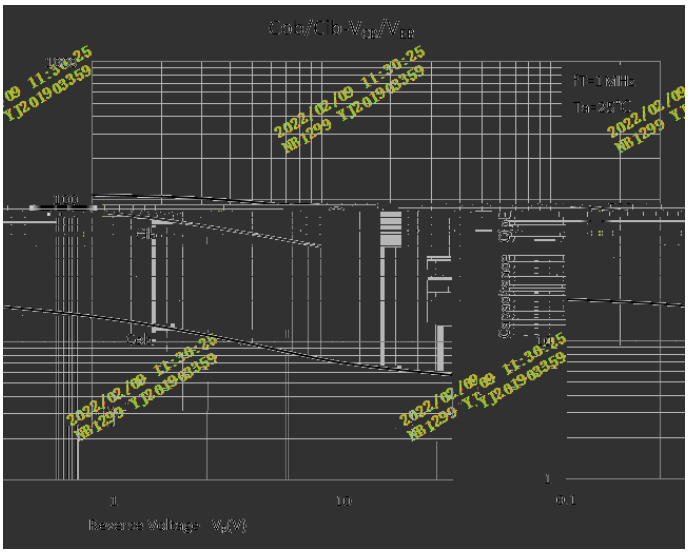


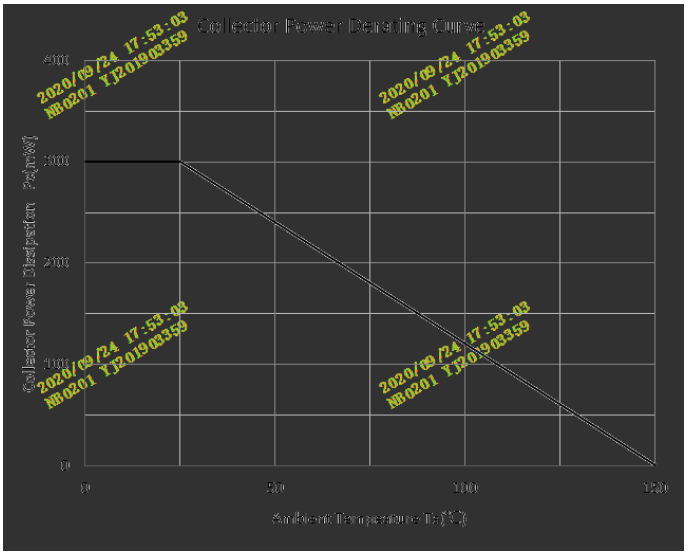








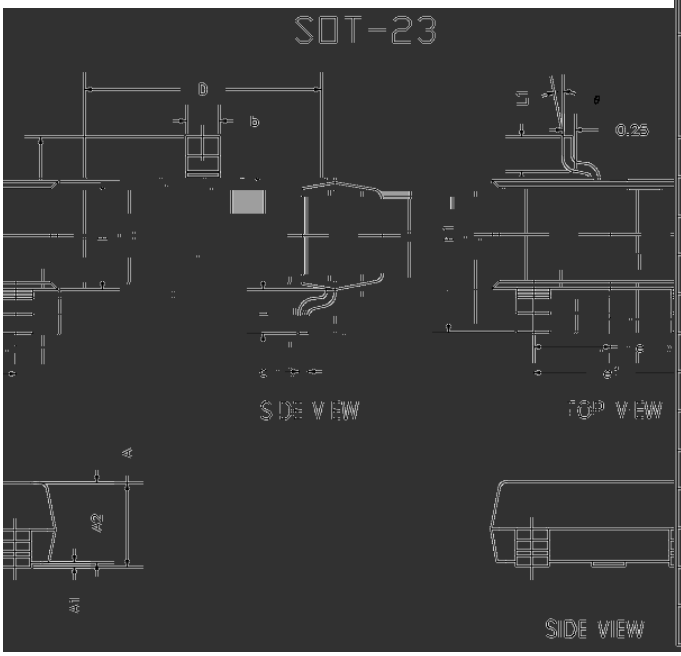




■ (Example)

FMMT491	F2	Approximate 0.008	3000	30000	120000	7” reel

■



DIMENSIONS				
DIM	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.035	0.045	0.900	1.150
A1	0.000	0.004	0.000	0.100
A2	0.035	0.041	0.900	1.050
b	0.012	0.020	0.300	0.500
c	0.004	0.008	0.100	0.200
D	0.110	0.118	2.800	3.000
E	0.047	0.055	1.200	1.400
E1	0.089	0.100	2.250	2.550
e	0.037 TYP		0.95 TYP	
e1	0.071	0.079	1.800	2.000
L	0.022 TYP		0.55 TYP	
L1	0.012	0.020	0.300	0.500
θ	0°	8°	0°	8°

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