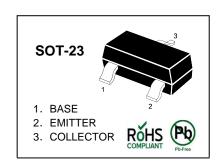


TRANSISTOR (NPN)

FEATURES

VHF/UHF Transistor

MARKING: 3EM



MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	value	Unit
V _{CBO}	Collector-Base Voltage	30	V
V _{CEO}	Collector-Emitter Voltage	25	V
V _{EBO}	Emitter-Base Voltage	3	V
Ic	Collector Current	50	mA
Pc	Collector Power Dissipation	225	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	556	°C/W
Tj	Junction Temperature	150	${\mathbb C}$
T _{stg}	Storage Temperature	-55~+150	${\mathbb C}$

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

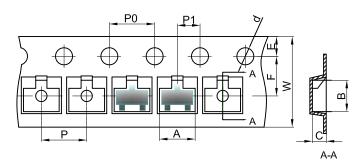
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =100μA, I _E =0	30			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	25			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	3			V
Collector cut-off current	I _{CBO}	$V_{CB}=25V$, $I_{E}=0$			0.1	μΑ
Emitter cut-off current	I _{EBO}	V _{EB} =2V, I _C =0			0.1	μΑ
DC current gain	h _{FE}	V _{CE} =10V, I _C =4mA	60			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =4mA, I _B =0.4mA			0.5	V
Base-emitter voltage	V_{BE}	V _{CE} =10V, I _C =4mA			0.95	V
Transition frequency	f _T	V _{CE} =10V, I _C =4mA f=100MHz	650			MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			0.7	pF

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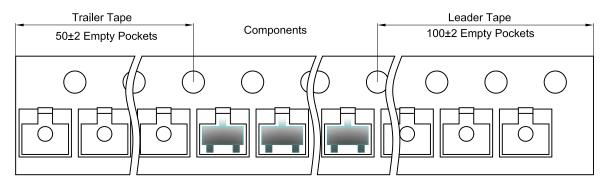
SOT-23 Tape and Reel

SOT-23 Embossed Carrier Tape

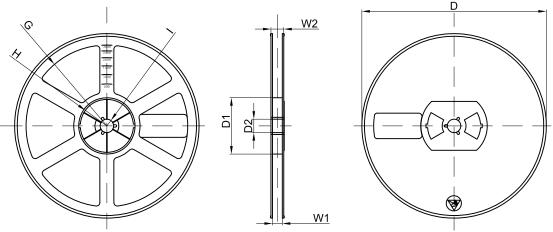


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer





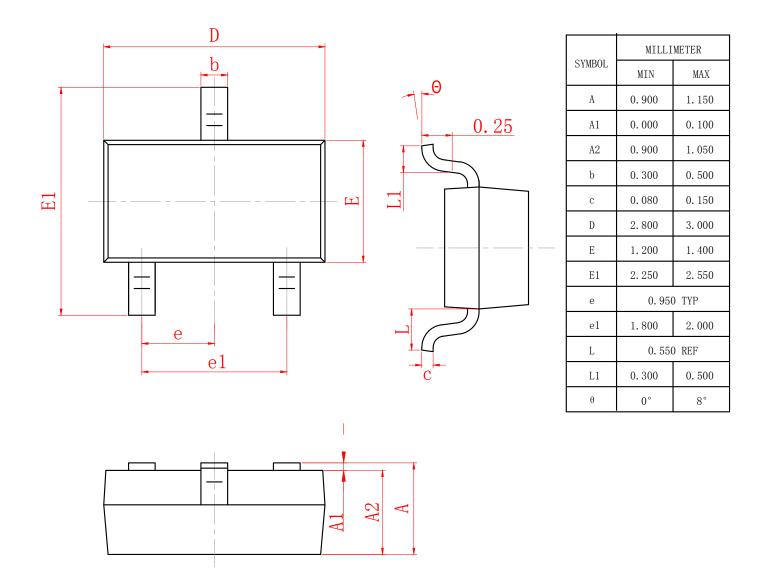


Dimensions are in millimeter									
Reel Option	D	D1	D2	G	Н	I	W1	W2	
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	203×203×195	180,000 pcs	438×438×220	

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