

New Jersey Semi-Conductor Products, Inc.

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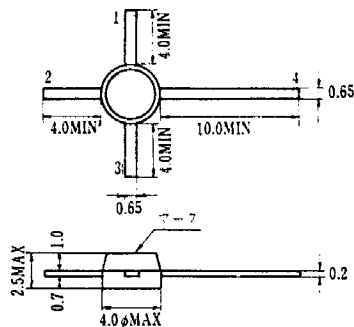
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Characteristics for FPAK Transistors

Function	Absolute Maximum Ratings					Electrical Characteristics						Outline	
	Type No.	V_{CBO} (V_{DSX}) (V)	V_{CEO} (V_{G1SS}) (V)	V_{EBO} (V_{G2SS}) (V)	P_C (P_{ck}) (mW)	PG (dB)	NF (dB)	f_T (MHz)	$ y_{fs} $ (mS)	C_{ob} (pF)	C_{iss} (pF)		Remarks
UHF Tuner	RF	2SC2464	30	25	4	200	$\geq 14^*$	$\leq 6.0^*$	≥ 750	—	≤ 0.8	—	$NF = 4.0\text{dB typ}$
		3SK80	(20)	(± 8)	(± 8)	(200)	$\geq 10^*$	$\leq 6.0^*$	—	≥ 7	—	≤ 5.0	$C_{iss} = 2.0\text{pF typ}$
		3SK82	(15)	(± 8)	(± 8)	(200)	$\geq 10^*$	$\leq 5.5^*$	—	≥ 13	—	≤ 5.0	$C_{iss} = 2.8\text{pF typ}$
		3SK95	(15)	(± 10)	(± 10)	(200)	$\geq 10^*$	$\leq 5.5^*$	—	≥ 14	—	2.8typ	$NF = 3.5\text{dB typ}$
	Mixer	2SC2466	30	20	3	200	$\geq 14^*$	—	≥ 1500	—	≤ 1.0	—	$CG = 13\text{dB typ}$
		2SC2731	20	11	3	200	—	9.5typ*	≥ 2000	—	≤ 1.5	—	$CG \geq 12\text{dB (900MHz)}$ $f_T = 3500\text{MHz typ}$
		2SC2728	15	10	3	200	—	6.0typ*	> 1500	—	≤ 1.5	—	$CG > 10\text{dB (900MHz)}$ $f_T = 2500\text{MHz typ}$
	Oscillator	2SC2468	30	20	3	200	—	—	≥ 900	—	≤ 1.5	—	$I_A = 2.5\text{mA typ}$ (930MHz)
		2SC2730	15	10	3	200	—	—	≤ 1200	—	≤ 1.5	—	$V_{osc} = 32\text{mV typ}$ (930MHz)
VHF Tuner	RF	2SC2465	20	20	3	200	18~27**	$\geq 3.2^{**}$	> 400	—	—	—	$C_{cs} \leq 0.45\text{pF}$ $V_{AGC} = 4.3 \sim 5.6\text{V}$
		2SC2727	15	12	3	200	18~30**	$\leq 3.2^{**}$	> 700	—	—	—	$C_{cs} \leq 0.45\text{pF}$ $V_{AGC} = 2.5 \sim 3.5\text{V}$
		3SK81	(20)	(± 8)	(± 8)	(200)	$\geq 17^{**}$	$\leq 3.3^{**}$	—	> 8	—	5.0typ	—
		3SK83	(15)	(± 8)	(± 8)	(200)	$\geq 20^{**}$	$\leq 3.0^{**}$	—	> 13	—	≤ 5.0	$C_{iss} = 2.8\text{pF typ}$
		3SK96	(15)	(± 8)	(± 8)	(200)	$\geq 22^{**}$	$\leq 3.0^{**}$	—	> 15	—	4.5typ	—
	Mixer	2SC2467	30	20	3	200	—	$\leq 5.5^{**}$	> 600	—	—	—	$CG \geq 16\text{dB (200MHz)}$ $C_{cs} \leq 0.45\text{pF}$
		2SC2729	15	10	3	200	—	$\leq 5.5^{**}$	> 800	—	—	—	$CG \geq 16\text{dB (200MHz)}$ $C_{cs} \leq 0.5\text{pF}$
	Oscillator	2SC2469	30	20	3	200	—	—	≥ 600	—	≤ 1.5	—	$V_{osc} = 500\text{mV typ}$ (300MHz)
Wide Band Amp.	UHF	2SC2731	20	11	3	200	—	—	≥ 2000	—	≤ 1.5	—	$f_T = 3500\text{MHz typ}$
	VHF	2SC2470	30	20	3	200	$\geq 12^{***}$	$\leq 5.0^{**}$	≥ 1500	—	≤ 1.5	—	$f_T = 2500\text{MHz typ}$

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* $f = 900\text{MHz}$, ** $f = 200\text{MHz}$, *** $f = 50\text{M} \sim 250\text{MHz}$



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FPAK



電極接続
1. ゲート 2 3. ソース
2. ゲート 1 4. ドレイン



Quality Semi-Conductors