

## 2. MINI PACKAGE SERIES

TO-92 MOD (MINI)



### TRANSISTOR

Type No.	V <sub>CEO</sub> (V)		I <sub>C</sub> (mA)	P <sub>C</sub> (mW)	h <sub>FE</sub>		V <sub>CE(sat)</sub> MAX.			f <sub>T</sub> TYP (MIN.)			NF MAX. (TYP.)			
	NPN	PNP			V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	I <sub>B</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	V <sub>CE</sub> (V)	I <sub>C</sub> (mA)	f (Hz)
2SC2458	2SA1048	50	150	200	70~700/400	6	2	0.25/0.3	100	10	1	10	6	0.1	1K	10
2SC2458(L)	2SA1048(L)	50	150	200	70~700/400	6	2	0.25/0.3	100	10	1	3	6	0.1	1K	10
2SC2459	2SA1049	120	100	200	200~700	6	2	0.3	10	1	100	6	1	0.1	1K	10
2SC2710	2SA1150	30	800	300	100~320**	1	100	0.5/0.7	500	20	120	5	10	—	—	—
2SC3267	2SA1297	20	2000	400	120~700/400	2	100	0.5	2000	100	120	2	0.5	—	—	—
2SC3378	2SA1335	120	100	200	200~700	6	2	0.3	10	1	100	6	1	2	6	0.1
2SC3488	2SA1378	30	500	200	70~240	1	100	0.25	100	10	300	6	20	—	—	—
2SC3113		50	150	200	600~3600*	6	2	0.25	100	10	250	10	10	—	—	—
2SC3327		20	300	200	200~1200#	2	4	0.3	30	3	30	6	4	—	—	—
2SC2668		30	20	100	40~200*	6	1	—	—	—	550	5	1	5.0	6	1
2SC2669		30	50	200	40~240	12	2	0.4	10	1	(100)	10	1	—	—	—
2SC2670		30	100	200	40~240	12	2	0.4	10	1	(80)	10	2	3.5	10	1
2SC2695		30	50	200	40~240	6	1	—	—	—	350	6	1	(4.0)	6	1

R: 40~80 O: 70~140 Y: 120~240 GR: 200~400 BL: 350~700

\* Y: 100~200 \* O: 100~200 Y: 160~320

\* A: 600~1800 B: 1200~3600 # A: 200~700 B: 350~1200

### JUNCTION FET

Type No.	V <sub>GD0</sub> (V)		I <sub>G</sub> (mA)	P <sub>D</sub> (mW)	I <sub>DSS</sub> (mA)	V <sub>GS</sub> (V)		I <sub>Yfs1</sub> TYP. (MIN.)		C <sub>oss</sub> MAX. (TYP.)			NF MAX.				
	N-Channel	P-Channel				V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>DS</sub> (V)	V <sub>GS</sub> (V)	V <sub>GS</sub> (pF)	V <sub>GD</sub> (V)	f (MHz)	V <sub>DS</sub> (V)	I <sub>D</sub> (mA)	f (Hz)	R <sub>θ</sub> (KΩ)	
2SK118		-50	10	100	0.3~6.5	10	0	(1.2)	10	0	(2.6)	-10	1	5.0	15	120	100
2SK184		-50	10	200	0.6~14	10	0	15	10	0	(3)	-10	1	10	10	0.5	10
2SK330		-50	10	200	1.2~14	10	0	4.0	10	0	(2.5)	-10	1	—	—	—	—
2SK365		-50	10	200	1.2~14	10	0	19	10	0	(3)	-10	1	—	—	—	—
2SK366		-40	10	200	2.6~20	10	0	28	10	0	(6)	-10	1	—	—	—	—
2SK367		-100	10	200	0.6~6.5	10	0	4.6	10	0	(3)	-10	1	—	—	—	—
2SK370		-40	10	200	2.6~20	10	0	28	10	0	(6)	-10	1	10	10	1	10
2SK371		-10	10	200	5~30	10	0	60	10	0	(15)	-10	1	10	10	5	100
2SK372		-40	10	200	5~30	10	0	60	10	0	(15)	-10	1	—	—	—	—
2SJ105		50	-10	200	-1.2~-6.5	-10	0	4.0	-10	0	(3.6)	10	1	—	—	—	—
2SJ107		25	-10	200	-2.6~-20	-10	0	30	-10	0	(32)	10	1	—	—	—	—
2SJ108		25	-10	200	-2.6~-20	-10	0	30	-10	0	(32)	10	1	10	-10	-1	10
2SK161		-18	10	200	1~10*	10	0	9	10	0	0.15	-10	1	3.5	10	—	100M
2SK192A		-18	10	200	3~24**	10	0	7	10	0	0.65	-10	1	3.5	10	—	100M

R: 40~80 O: 70~140 Y: 120~240 GR: 200~400 BL: 350~700

\* Y: 100~200 \* O: 100~200 Y: 160~320

\* A: 600~1800 B: 1200~3600 # A: 200~700 B: 350~1200

### Application

General Purpose <sup>356</sup>

Low Noise

High Voltage

High Current

High Current

Low Impedance Low Noise <sup>(NEW)</sup>

Audio Drive & Out <sup>(NEW)</sup>

High β

Muting & SW

FM RF, MIX OSC

AM CONV. FM/AM IF

AM FF, CONV IF

FM/AM RF, MIX OSC

### Application

General Purpose

High I<sub>Yfs1</sub> Low Noise

Analog SW & General Purpose <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

High I<sub>Yfs1</sub> Low Noise <sup>(NEW)</sup>

High I<sub>Yfs1</sub> Low Noise <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

Analog SW & General Purpose <sup>(NEW)</sup>

High I<sub>Yfs1</sub> Low Noise <sup>(NEW)</sup>

AHF AMP. FM RF (Cascode Type)

VHF AMP. FM RF