



# Mini size of Discrete semiconductor elements



## Diode Rectifier

→	Schottky SOD-723 / SOD-523 / SOD-323	-----	P1
→	TO-252 / TO263		
→	SOT-23-6 / TSSOP-8 / SOP-8		
→	mini-MELF / MELF		
→	SMA / SMB / SMC		
→	Switching SOT-523 / SOT-323 / SOT-23	-----	P2
→	Bridge (Single phase / Three phase)	-----	P3
→	RF ( low capacitance ) & Varactor	-----	P4



## MOSFET

→	SOT-323	-----	P5
→	SOT-23		
→	TO-252 / TO-263 / TO-220 / TO-3P	-----	P6
→	TSSOP-8 / SOP-8		



## Regulator

→	Switching Regulator / Charger pump	-----	P7
→	DC-DC converter / PWM IC	-----	P8
→	Step-up/down (Boost / Buck)		
→	LDO Regulator	-----	P9~
→	Ultra LDO Regulator	-----	P11



## Transistor (Digital)

→	SOT-323 / SOT-363 (Dual N , Dual P , P+N)	-----	P12
→	SOT-23 / SOT-89	-----	P13
→	TO-252 / TO-263	-----	P14
→	TO-92 / TO-220 / TO-3P	-----	P15
→	Triac / SCR / RF (1GHz ~ )		
→	Digital	-----	P16~
			P18



## Reset IC

→	SOT-23 / SOT-23-5	-----	P19
→	SOT-89 / TO-92		

## Logic IC

→	SOT-23-5 / SOT-323-5	-----	P20
→	Standard		

## EEPROM IC



## Protection Device

→	Sidac / Thyristor / EMI Filter	-----	P21
→	TVS / ESD Arrays / Varistor (chip)	-----	P22
→	Gastube arrester / 5~6 pin arrester	-----	P23
→	Polymer resetable fuse / Thermal switch & sensor	-----	P24

## Film Capacitor

→	Class X1 / X2 Safety license (300Vac)	-----	P25
→	MPP / MPE / DMP (High current)		
→	Minibox DC film cap. / <u>X+Y</u> combint cap.	-----	P26
→	Lighting film / AC starting film cap.		



## Ceramic Cap.

→	Class Y1 / Y2 Safety license	-----	P27
→	High voltage (1KV ~ 6KV)		
→	Chip Capacitors & Multilayer (MLCC)		
→	Tantalum Capacitors		



## Package Outline Dimensions

----- P28 ~ P34

**\*Other Industrial specification ( -20°C / -30°C / - 40°C ~ 85°C )**

# Schottky Diode (mini size SMD)

SOD-723 ( 2-pin , L*W*T=1.0mm*0.6mm*0.4mm) alike <u>0402 SIZE</u> (P.28)											
Package	Part Number	Peak Repetitive Reverse Voltage	Max Average Rectified Current		Max. Peak Forward Surge Current		Forward Voltage Drop		Max. Reverse Current		Circuit Figure
		V RRM	Io@T		IFSM@T		VF@IF		IR@VR		
		V	A	C	A	S	V	A	uA	V	
SOD-723 (P.28)	BAT42WN	30	0.1	75	4	1.0m	0.33/1.0	0.002/0.2	0.5	30	*Q4 finish
SOD-523 (P.28)	BAT42WU	30	0.2	75	4	1.0m	0.33/1.0	0.002/0.2	0.5	30	-
SOD-323 (0805) (P.28)	GT014WS	45	0.1	75	1	1.0m	0.55	0.1	30	10	-
	GT0240WS	40	0.2	75	4	1.0m	0.33/1.0	0.002/0.2	0.5	30	-
	BAT42WS	30	0.2	75	4	1.0m	0.33/1.0	0.002/0.2	0.5	30	-
	SD103BWS	30	0.35	75	2	1	0.37/0.6	0.02/0.2	5	20	-
	GT5040WS	40	0.5	75	2	1	0.37/0.6	0.02/0.5	5	20	-
	BAS70WS	70	0.2	25	4	1	0.41/0.7	0.001/0.01	0.1/10	50/70	-
SOD-123 (1206) (P.28)	GT0530	30	0.2	75	4	1.0m	0.40/1.0	0.010/0.2	0.5	30	-
	SD103BW	30	0.35	75	2	1	0.37/0.6	0.02/0.2	5	20	-
	GT5040	40	0.5	75	5.5	8.3m	0.51	0.5	10	20	-
	GT5060	60	0.5	96	8	1m	0.62	0.5	100	60	-
	GT1040	40	1	75	30	8.3m	0.55	0.5	10	20	-
SOT-523 (P.28)	GT0230WU	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3
	GT0230AWU	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	3-->1, 3-->2
	GT0230CWU	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 2-->3
	GT0230SWU	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 3-->2
SOT-323 (P.28)	GT0230W	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3
	GT0230AW	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	3-->1, 3-->2
	GT0230CW	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 2-->3
	GT0230SW	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 3-->2
	BAS70W	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3
	BAS70AW	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	3-->1, 3-->2
	BAS70CW	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3, 2-->3
	BAS70SW	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3, 3-->2
SOT-23 (P.28)	GT0230	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3
	GT0230A	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	3-->1, 3-->2
	GT0230C	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 2-->3
	GT0230S	30	0.2	75	0.6	1	0.32/1.0	0.001/0.1	2	25	1-->3, 3-->2
	GT0540A	40	0.5	75	2.5	1	0.3/0.55	0.01/0.5	2	25	1-->3
	GT1025	25	1	75	2.5	1	0.3/0.55	0.01/0.5	2	25	1-->3
	BAS70	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3
	BAS70A	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	3-->1, 3-->2
	BAS70C	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3, 2-->3
	BAS70S	70	0.2	25	0.6	1	0.41/0.75	0.001/0.01	0.1/10	50/70	1-->3, 3-->2
SMA (P.29)	SS1xx	20 ~ 100	1	75	30	1	0.5 ~ 0.85	1	500	20 ~ 100	-
	SL1xx	20 ~ 40	1	75	30	1	0.4	1	500	20 ~ 40	-
	SR2xx	20 ~ 60	2	75	50	1	0.5 ~ 0.85	2	500	20 ~ 60	-
	SR3xxS	20 ~ 60	2	75	50	1	0.5 ~ 0.85	2	500	20 ~ 60	-
SMB (P.29)	SK2xx	20 ~ 60	2	105	50	1	0.5 ~ 0.85	2	500	20 ~ 60	-
	SR3xx	20 ~ 60	3	75	80	1	0.5 ~ 0.85	3	500	20 ~ 60	-
SMC (P.29)	SK3xx	20 ~ 60	3	75	100	1	0.5 ~ 0.85	3	500	20 ~ 60	-
	SL3xx	20 ~ 40	5	75	100	1	0.4	3	500	20 ~ 60	-
	SK5xx	20 ~ 40	5	75	100	1	0.5 ~ 0.85	5	500	20 ~ 40	-
TO-252 (P.30)	SB6xx DC	20 ~ 40	6	75	75	1	0.55 ~ 0.85	6	500	20 ~ 40	-
TO-263 (P.30)	SB8xx DC	20 ~ 40	8	100	75	1	0.55 ~ 0.85	8	500	20 ~ 40	-
	SB10xx DC	20 ~ 40	10	100	75	1	0.55 ~ 0.85	8	500	20 ~ 40	-
	SB16xx DC	20 ~ 40	16	100	75	1	0.55 ~ 0.85	8	500	20 ~ 40	-

