

Switching diodes portfolio

General purpose switching diodes: double, triple and quad diodes

V_f max. [V]	t_r max. [ns]	Package	SOT346 (SC-59)	SOT457 (SC-74)	SOT23	SOT143B	SOT323 (SC-70)	SOT363 (SC-88)	SOT666	SOT490 (SC-89)	SOT416 (SC-75)	
			Plastic SMD	Plastic SMD	Plastic SMD	Plastic SMD	Plastic SMD	Plastic SMD	Plastic flat lead SMD	Plastic flat lead SMD	Plastic SMD	
		Size in mm	2.9x1.5x1.15	2.9x1.5x1.0	2.9x1.3x1.0	2.9x1.3x1.0	2.0x1.25x0.95	2.0x1.25x0.95	1.6x1.2x0.6	1.6x0.85x0.7	1.6x0.8x0.75	
		P_{tot} [mW]	250	500	250	250	250	300	300	250	150	
		Configuration										
100	4		IPS226		BAV99		BAV99W				IPS89SS04	
			IPS184		BAV70		BAV70W				IPS89SS05	BAV70T
			IPS181		BAW56		BAW56W				IPS89SS06	BAW56T
						BAS28						
								BAS16VY	BAS16VV			
								BAV99S				
								BAV70S				
								BAW56S				
200	50				BAV23S							
						BAV23						
				BAS21VD								
300	50					BAW101						
											BAW101S	

General purpose switching diodes

- High speed switching diodes
- Very low capacitance
- General application diodes

Controlled avalanche switching diodes

V_f max. [V]	I_{RM} max. [A]	I_{FRM} max. [mA]	C_o max. [pF]	t_r max. [ns]	Package	SOT23	SOT143B
						Plastic SMD	Plastic SMD
					Size in mm	2.9x1.3x1.0	2.9x1.3x1.0
					P_{tot} [mW]	250	250
					Configuration		
60	9	600	2.5	6			BAS56
90	10	600	35	50		BAS29	
						BAS31	
						BAS35	

Controlled avalanche switching diodes

- High reverse surge current
- High speed switching

General purpose switching diodes: single diodes

V_f max. [V]	t_r max. [ns]	Package	SOD27 (DO-35)	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT346 (SC-59)	SOT23	SOD123F	SOD110	SOT323 (SC-70)	SOD323 (SC-76)	SOT416 (SC-75)	SOD523 (SC-79)	SOD882
			Leaded glass	Surface mounted glass	Leaded glass	Plastic SMD	Plastic SMD	Plastic flat lead SMD	Ceramic SMD	Plastic SMD	Plastic SMD	Plastic SMD	Plastic SMD	Plastic flat lead SMD
		Size in mm	4.25x1.85x0.56	3.5x1.5x1.5	3.04x1.6x0.55	2.9x1.5x1.15	2.9x1.3x1.0	2.6x1.6x1.1	2.0x1.25x1.6	2.0x1.25x0.95	1.7x1.25x0.95	1.6x0.8x0.75	1.2x0.8x0.6	1.0x0.6x0.5
		P_{tot} [mW]	500	300	500	250	250	900	300	250	400	150	500	250
		Configuration												
100	4		1N4148 BAW62	BAS32L PMLL4148L	1N4531			BAS16H	BAS216		BAS316		BAS516	BAS16L
						IPS193	BAS16			BAS16W		BAS16T		
							BAL74							
							BAL99							
200	50		BAV21	BAV103										
											BAS321			
							BAS21	BAS21H						
300	50											BAS521		

■ released ■ under development

Low leakage current switching diodes

V_f max. [V]	V_r max. [V]	I_r max. [nA]	t_r max. [ns]	Package	SOD80C (MiniMelf)	SOD68 (DO-34)	SOT23	SOT323 (SC-70)	SOD323 (SC-76)	SOD523 (SC-79)
					Surface mounted glass	Leaded glass	Plastic SMD	Plastic SMD	Plastic SMD	Plastic flat lead SMD
				Size in mm	3.5x1.5x1.5	3.04x1.6x0.55	2.9x1.3x1.0	2.0x1.25x0.95	1.7x1.25x0.95	1.2x0.8x0.6
				P_{tot} [mW]	300	500	250	250	400	500
				Configuration						
100	$I @ I_r = 10$ mA	5 @ V_f max.	3				BAS116		BAS416	BAS716
							BAV199	BAV199W		
							BAW156			
							BAV170			
125	$I @ V_f$ max.	1.5 typ.		BAS45AL	BAS45A					

Low leakage current switching diodes

- Very low reverse leakage current
- High speed switching
- Very low capacitance
- General application diodes



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