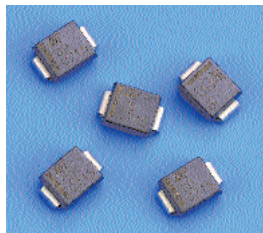


Protection Diodes

"Transil" - 3V Logic Systems



- Unidirectional transil diode dedicated to the protection of 3V3 CMOS and BICMOS technologies
- Low clamping voltage at high current level ensures excellent protection of sensitive components
- Plastic SOD 6 case style



Reverse stand-off voltage 3.3V Peak pulse power 600W @ 1ms

Order Multiple=5	Price Each					
Order Code	5+	10+	50+	100+	500+	2500+
976-131						

'Transil' Voltage Suppression Diodes



- 400W Peak Pulse Power capability
- Low clamping factor
- Low incremental surge resistance
- Fast response time



SMA H = 2.9, W = 2.9, D = 5.6

Max. Reverse Leakage Current μA	V_{rm} @ V	V_{br} Min. V	I_r @ mA	P_{pp} W	Clamping Voltage V (cl) max. V	I_{FSM} A	Package Marking	Mfrs. List No.	
								Unidirectional (d.c.)	Bidirectional (a.c.)
800	5	6.4	10	400	13.4	40	AE/AA	SMAJ5.0A	SMAJ5.0CA
5	12	13.3	1	400	19.9	40	DUK/DBK	SMAJ12A	SMAJ12CA
1	15	16.7	1	400	24.4	40	BM/AJ	SMAJ15A	SMAJ15CA
1	30	33.3	1	400	48.4	40	CK/CL	SMAJ30A	SMAJ30CA
1	33	36.7	1	400	53.3	40	CM/CN	SMAJ33A	SMAJ33CA

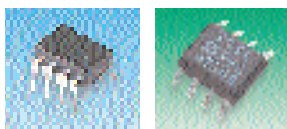
Order Multiple=5	Price Each					
Mfrs. List No.	Order Code	5+	25+	100+	250+	1K+
Unidirectional						
SMAJ5.0A	302-2973					
SMAJ12A	302-3096					
SMAJ15A	302-2936					
SMAJ30A	302-3114					
SMAJ33A	302-2950					
Bidirectional						
SMJA5.0CA	302-2985					
SMAJ12CA	302-3102					
SMAJ15CA	302-2948					
SMAJ30CA	302-3126					
SMAJ33CA	302-2961					

Voltage Suppression Diodes Arrays

Breakdown Voltage Min. V	V_{br} Max. V	I_r mA	V_{pp} kV	P_{pk} W	Reverse Leakage Current μA	Package	Package Marking	Mfrs. List No.
14.2	15.8	1	25	300	5	SOT-23	EL15	ESDA14V2L
6.1	7.2	1	25	300	20	SOT-23	EL61	ESDA6V1L
Four Unidirectional Transils								
6.1	7.2	1	25	300	20	SOT-23-5L	EC61	ESDA6V1SC5
6.1	7.2	1	25	300	20	SOT-23-5L	ES61	ESDA6V1SC6
Six Unidirectional Transils								
6.1	7.2	1	25	200	20	SO-8	—	ESDA6V1U1

Order Multiple=5	Price Each					
Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
ESDA14V2L	302-2882					
ESDA6V1L	302-2894					
ESDA6V1SC5	302-2900					
ESDA6V1SC6	302-2912					
ESDA6V1U1	302-2924					

USB Port Protection

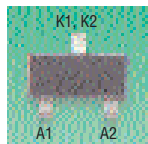


- Full diode bridge with in-built suppression
- V_{br} = 6V min.
- Peak pulse power dissipation = 500W
- Low capacitance
- Through hole or surface mount
- Complies with MIL STD 883C – Method 3015-6 and IEC-1000-4-2 level 4

V_{BR} min. V	I_r @ mA	I_{pp} A	V_{pp} kV	P_{pk} W	I_{rm} max. μA	Package	Mfrs. List No.
6	1	25	15	500	10	SO-8	USB6B1
6	1	25	15	500	10	DIL8	USB6B2

Mfrs. List No.	Order Code	1+	25+	100+	250+	1K+
USB6B1	SMD302-3072					
USB6B2	302-3084					

40W Dual Transient Voltage Suppression Diodes



- 40W peak power dissipation
- Common cathode configuration
- SOT-23 package

ON Semiconductor



Vrwm Stand-Off Voltage V	Vbr Breakdown Voltage			I (test) mA	Clamping Voltage V (cl) max. V	Max. Peak Pulse Current A	Max. Reverse Leakage Current μA	Package Marking	Mfrs. List No.
	Min. V	Nom. V	Max. V						
12.8	14.3	15.0	15.8	1	21.2	1.9	100	15D	MMBZ15VDLT1

Order Multiple=5	Price Each					
Mfrs. List No.	Order Code	1+	25+	100+	1K+	3K+
MMBZ15VDLT1	352-6471					

600W Transient Voltage Suppression Diodes



- Glass passivated junction
- 600W Peak Pulse Power capability
- Excellent clamping capability
- Low incremental surge resistance
- Fast response time



SMB H = 2.44, W = 5.59, D = 3.56

Vrm Stand-off Voltage V	Vbr Breakdown Voltage			I (test) mA	Clamping Voltage V (cl) max. V	Max. Peak Pulse Current A	Max. Reverse Leakage Current μA	Package Marking	Mfrs. List No.	
	Min. V	Max. V	Max. V						Unidirectional (d.c.)	Bidirectional (a.c.)
600W Peak Pulse Power										
5	6.4	7.0	10	9.2	65.2	800	KE/AE	SMBJ5.0A	SMBJ5.0CA	
9	10.0	11.1	1	15.4	39.0	10	KV/AV	SMBJ9.0A	SMBJ9.0CA	
12	13.3	14.7	1	19.9	30.2	5	LE/BE	SMBJ12A	SMBJ12CA	
15	16.7	18.5	1	24.4	24.6	5	LM/BM	SMBJ15A	SMBJ15CA	
16	17.8	19.7	1	26.0	23.1	5	LP/LM	SMBJ16A	SMBJ16CA	
18	20.0	22.1	1	29.2	20.5	5	LT/BT	SMBJ18A	SMBJ18CA	
22	24.4	26.9	1	35.5	16.9	5	LX/BX	SMBJ22A	SMBJ22CA	
24	26.7	29.5	1	38.9	15.4	5	LZ/BZ	SMBJ24A	SMBJ24CA	
30	33.3	36.8	1	48.4	12.4	5	MK/CK	SMBJ30A	SMBJ30CA	
33	36.7	40.6	1	53.3	11.3	5	MM/CM	SMBJ33A	SMBJ33CA	
36	40.0	44.2	1	58.1	10.3	5	MP/CP	SMBJ36A	SMBJ36CA	

Order Multiple=5	Price Each					
Mfrs. List No.	Order Code	5+	25+	100+	500+	1000+
Unidirectional						
SMBJ5.0A	167-125					
SMBJ9.0A	167-137					
SMBJ12A	167-149					
SMBJ15A	167-150					
SMBJ16A	167-162					
SMBJ18A	167-174					
SMBJ22A	167-186					
SMBJ24A	167-198					
SMBJ30A	167-204					
SMBJ33A	167-216					
SMBJ36A	167-228					
Bidirectional						
SMBJ5.0CA	167-230					
SMBJ9.0CA	167-241					
SMBJ12CA	167-253					
SMBJ15CA	167-265					
SMBJ16CA	167-277					
SMBJ18CA	167-289					
SMBJ22CA	167-290					
SMBJ24CA	167-307					
SMBJ30CA	167-319					
SMBJ33CA	167-320					
SMBJ36CA	167-332					

Continued