








Transient Voltage Suppressors										
Selection Guide										
P _{PPM} ⁽¹⁾ (Watts)	Thru-Hole Packages ^{(2) (3)}				Surface Mount Packages ^{(2) (3)}			Stand-off Voltage (V _{WM}) Range (Volts)	Breakdown Voltage (V _{BR}) Range ⁽⁴⁾ (Volts)	V _{BR} Tolerance (Suffix)
	D0-204AL (D0-41P)	D0-204AC (DO-15)	P-600 or R-6	DO-201 or DO-201AE	D0-214AC (SMA)	D0-214AA (SMB)	D0-214AB (SMC)			
										
400	P4KEyy							5.5 ~ 376	6.8 ~ 440	5% (A) /10% (Blank)
					P4SMAyy			5.8 ~ 185	6.8 ~ 220	5% (A)
					P4SMAJxx			5.0 ~ 220	6.4 ~ 242	5% (A)/10% (Blank)
500		SAxx					5.0 ~ 170	6.40 ~ 189	5% (A)/10% (Blank)	
600		P6KEyy						5.50 ~ 376	6.8 ~ 440	5% (A)/10% (Blank)
						P6SMByy		5.8 ~ 185	6.8 ~ 220	5% (A)
						P6SMBJxx		5.0 ~ 220	6.4 ~ 242	5% (A)/10% (Blank)
1500				1.5KEyy				5.50 ~ 376	6.8 ~ 440	5% (A)/10% (Blank)
				1N6267-1N6303				5.5 ~ 171	6.8 ~ 200	5% (A)/10% (Blank)
						1.5SMCyy		5.8 ~ 185	6.8 ~ 220	5% (A)
						1.5SMCJxx		5.0 ~ 220	6.4 ~ 242	5% (A)/10% (Blank)
3000			3KPxx					5.0 ~ 220	6.40 ~ 242	
						3.0SMCJxx		5.0 ~ 220	6.40 ~ 242	
5000			5KPxx				5.0 ~ 110	6.40 ~ 122	5% (A)/10% (Blank)	

Notes:

1. Maximum Peak Pulse Power (P_{PPM}) is tested with 10/1000 μS pulse.
2. In Part numbers, "xx" designates V_{WM} and "yy" designates nominal V_{BR}.
3. For bidirectional polarity, add suffix "C" to part number.
4. Nominal V_{BR} voltages are specified for part numbers with "yy" and minimum V_{WM} voltages are specified for part numbers with "xx"



Application Area - Telecom

Application	Applicable CDIL's Part Number		
CATV Set-Top Box	P6KE200		
Cable Modem	P6SMBJ14CA	1.5SMCJ5.0A	
Cellular Phone	P6SMAJ20C		
Commercial Telecom Multiplexer	P6SMBJ170CA		
DSS (Direct Satellite System)	P6KE91A	P6SMBJ150A	
DSS Receiver	1.5KE18CA	P6SMBJ170A	
Digital ISDN Telecom Network	1.5SMCJ5.0A		
GSM Phone	P4SMAJ5.0A	P6SMBJ9.0A	P6SMBJ16A
Military Radio Controller	P6KE18CA		
Personal Handy-Phone System (PHS)	P6KE91	P6SMBJ78	
Router	P6KE91	P6SMBJ75A	
Satellite Antenna	1.5SMCJ20A		
Satellite Dish System	1.5SMCJ20A	1.5SMCJ24A	
Satellite Receiver	1.5KE27A	1.5SMCJ24A	
Telecom Switching System	1.5KE62A	1.5SMCJ58A	

Application Area - Consumer

Application	Applicable CDIL's Part Number		
Air Conditioner	1.5KE220A		
Color TV (21")	P4KE120		
DVD (Digital Video Disk) Player	1.5KE180A	P6KE120	
Emergency Lighting	P6KE440CA		
Flight Simulator	1.5SMCJ36CA	1.5SMCJ170CA	
HDTV	1.5KE200A		
Home Security System	SA5.0A	SA11CA	P6SMBJ12A
MP3 Player	P6SMBJ22A		
Security Camera System		SAC7.0	
Smoke Detector	P6KE20CA	P6SMBJ40CA	P6SMBJ43A
TGV ABS System	1.5KE160CA		
Vending Machine	P4SMAJ15		
Video Camera	P6KE180A		

Application Area - Computers

Application	Applicable CDIL's Part Number		
Desktop PC	P4KE6.8A	SA5.0A	
Disk Drive	P6SMBJ5.0A		
HDD (Hard Disk Drive)	P6KE22	P6SMBJ5.0A	
Laser Printer	P4KE200	P4KE250	
Local Area Network (LAN) Board	P6SMBJ15C		
Modem Card	P6KE120CA	P6SMBJ110CA	
Motherboard	P6KE400A		
Printer	P4SMAJ5.0		
UPS	1.5KE300A	1.5KE6.8A	



Application Area - Industrial

Application	Applicable CDIL's Part Number			
Aircraft Engine Controller	1.5SMCJ13			
Aircraft Onboard Electronics System	P6SMBJ33CA			
Aircraft Sensor TVS Protection Circuitry	1.5SMCJ13A	1.5SMCJ24A	1.5SMCJ28A	1.5SMCJ33CA
Airplane "Black Box" Data Recorder System	1.5SMCJ6.5CA	1.5SMCJ40CA		
Airplane Lightning Protection Equipment		SAC5.0		
Card Reader	P6SMBJ5.0	1.5SMCJ15CA		
Control Equipment	P4SMAJ15C			
Elevator	1.5KE440A			
Fire Alarm System	SA14			
Gas Alarm	P4SMAJ5.0	P4SMAJ170		
Image Inspection System	P6SMBJ5.0A	P6SMBJ15A		
Nuclear Test Box	SA45CA	SA51CA		
Power MOSFET protection (P6KE36A)	P6KE36A			
Submarine	1.5KE350A			
Voltage Regulator	1.5KE20A	5KP20A		

Application Area - Automotive

Application	Applicable CDIL's Part Number		
Adjustable Pedal Module (APM)	1.5SMBJ26A		
Airbag	5KP24A		
Airbag Crash Sensor Module	P6SMBJ24CA		
Alarm System	P6KE27A	P6SMBJ24A	
Electronic Ignition Module	P4KE300A		
Engine Control	1.5KE13A	5KP24	1.5SMCJ13A
Load Dump Circuit	5KP43A	P6KE68A	
Mass Air Flow Regulator	P4SMAJ24C		
Oxygen Sensor	P4SMAJ15A		
Power Window Control Module	P6KE51A	P6SMBJ45A	
Speed Control Module	1.5KA24A	1.5SMCJ22A	
Steering Controller	5KP28A		
Truck Transmission Controller	P4SMAJ30C		



Application Area – Power Supply

Application	Applicable CDIL's Part Number			
AC/DC Converter	P6SMBJ5.0A			
3.3V SMPS Output	P6SMBJ20A			
Bank ATM Machine Power Supply	1.5KE51A	1.5SMCJ45A		
High Power SMPS	P6KE160	P6SMBJ130		
Lightning Suppression Board	5KP51	5KP51A	5KP78	5KP78A
Switching power supply	P6KE200A			
Transient Suppression Circuit	1.5KE220CA	5KP5.0A	5KP12A	5KP15A

Application Area – Lighting Ballast

Application	Applicable CDIL's Part Number
Active Power Factor Correction Ballast	P6KE220A
Control Circuitry	P4KE440CA
Electronic Ballast (EB)	P6KE400
Electronic Dimmer Ballast	P4KE440A
Electronic Lighting Ballast	1.5KE300A
Fluorescent Ballast	P6KE300



Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119
email@cdil.com www.cdilsemi.com