



# Changshu Talent Semiconductors Co.Ltd

## Transient Voltage Suppressors Application Guide

	Applications	Applicable CTS P/Ns			
	<b>Consumer</b>	Air Conditioner	1.5KE220A-TP		
Audio Op-Amp Output Protection Circuit		LCE26A-TP	LCE28A-TP		
Color TV		P4KE120A-TP			
DVD (Digital Video Disk) Player		1.5KE180A-TP	P6KE120A-TP		
Emergency Lighting		P6KE440CA-TP			
Flight Simulator		SMCJ36CA-TP	SMCJ170CA-TP		
HDTV		1.5KE200A-TP			
Home Security System		SA5.0A-TP	SA11CA-TP	SMBJ12A-TP	
MP3 Player		SMBJ22A-TP			
Security Camera System		LCE7.0A-TP	SAC7.0-TP		
Smoke Detector		P6KE20CA-TP	SMBJ40CA-TP	SMBJ43A-TP	
TGV ABS System		1.5KE160CA-TP			
Vending Machine		SMAJ15A-TP			
Video Camera	P6KE180A-TP				

	Applications	Applicable CTS P/Ns			
	<b>Automotive</b>	Adjustable Pedal Module (APM)	SMBJ26A-TP		
Airbag		5KP24A-TP			
Airbag Crash Sensor Module		SMBJ24CA-TP			
Alarm System		P6KE27A-TP	SMBJ24A-TP		
Electronic Ignition Module		P4KE300A-TP			
Engine Control		1.5KE13A-TP	5KP24A-TP	SMCJ13A-TP	
Load Dump Circuit		5KP43A-TP	P6KE68A-TP		
Mass Air Flow Regulator		SMAJ24CA-TP			
Oxygen Sensor		SMAJ15A-TP			
Power Window Control Module		P6KE51A-TP	SMBJ45A-TP		
Speed Control Module		1.5KE24A-TP	SMCJ22A-TP		
Steering Controller		5KP28A-TP			
Truck Transmission Controller		SMAJ30CA-TP			

	Applications	Applicable CTS P/Ns			
	<b>Industrial</b>	Card Reader	SMBJ5.0A-TP	SMCJ15CA-TP	
Control Equipment		SMAJ15C-TP			
Elevator		1.5KE440A-TP			
Fire Alarm System		SA14A-TP			
Gas Alarm		SMAJ5.0A-TP	SMAJ170A-TP		
Image Inspection System		SMBJ5.0A-TP	SMBJ15A-TP		
Nuclear Test Box		SA45CA-TP	SA51CA-TP		
Power MOSFET protection (P6KE36A)		P6KE36A-TP			
Voltage Regulator		1.5KE20A-TP	5KP20A-TP		



# Changshu Talent Semiconductors Co.Ltd

## Transient Voltage Suppressors Application Guide

	Applications	Applicable CTS P/Ns				
	Lighting Ballast	Active Power Factor Correction Ballast	P6KE220A-TP			
Control Circuitry		P4KE440CA-TP				
Electronic Ballast (EB)		P6KE400A-TP				
Electronic Dimmer Ballast		P4KE440A-TP				
Electronic Lighting Ballast		1.5KE300A-TP				
Fluorescent Ballast		P6KE300A-TP				

	Applications	Applicable CTS P/Ns				
	Telecom	CATV Set-Top Box	P6KE200A-TP			
Cable Modem		SMBJ14CA-TP	SMCJ5.0A-TP			
Cellular Phone		SMAJ20C-TP				
Commercial Telecom Multiplexer		SMBJ170CA-TP				
Digital ISDN Telecom Network		SMCJ5.0A-TP				
GSM Phone		SMAJ5.0A-TP	SMBJ9.0A-TP	SMBJ16A-TP		
Personal Handy-Phone System (PHS) [3]		P6KE91A-TP	SMBJ78A-TP			
Router		P6KE91A-TP	SMBJ75A-TP			
Telecom Switching System		1.5KE62A-TP	SMCJ58A-TP			

	Applications	Applicable CTS P/Ns				
	Power Supply	AC/DC Converter	SMBJ5.0A-TP			
3.3V SMPS Output		SMBJ20A-TP				
Bank ATM Machine Power Supply		1.5KE51A-TP	SMCJ45A-TP			
High Power SMPS		P6KE160-TP	SMBJ130-TP			
Lightning Suppression Board		5KP51A-TP	5KP78A-TP			
Switching power supply		P6KE200A-TP				
Transient Suppression Circuit		1.5KE220CA-TP	5KP5.0A-TP	5KP12A-TP	5KP15A-TP	5KP24A-TP

	Applications	Applicable CTS P/Ns				
	Computer	Desktop PC	P4KE6.8A-TP	SA5.0A-TP		
Disk Drive		SMBJ5.0A-TP				
HDD (Hard Disk Drive)		P6KE22A-TP	SMBJ5.0A-TP			
Laser Printer		P4KE200A-TP	P4KE250A-TP			
Local Area Network (LAN) Board		SMBJ15CA-TP				
Modem Card		P6KE120CA-TP	SMBJ110CA-TP			
Motherboard		P6KE400A-TP				
Printer		SMAJ5.0A-TP				
UPS		1.5KE300A-TP	1.5KE6.8A-TP			