

Littelfuse offers broadest range of Surface Mount TVS Diodes

- From 200 to 8000 W peak pulse power capability
- Excellent clamping capability without degradation
- Low profile packages including SOD-123FL, DO-221AC, SMB, and SMC
- Reverse standoff voltage from 3.3 V to 600 V
- High current SMT TVS up to 10 kA in 8/20 μ s
- Available in uni-directional (uni-polar) or bi-directional (bi-polar) diode circuit configurations
- In-house manufacturing



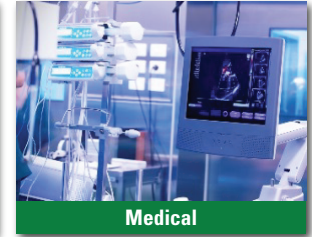
Surface Mount High Power								
Series Name	Package Type	Reverse Standoff Voltage (VR)	Peak Pulse Power Range (PPP 10/1000 μ s)	Peak Pulse Current (PPP 10/1000 μ s)	Operating Temperature	Halogen Free	RoHS	UL Recognized
SMDJ	DO-214AB	5.0–440	3000 W	21.5–1630.5 A (max)	-65°C – 150°C	•	•	•
4.0SMDJ	DO-214AB	24	4000 W	650 A (max)	-65°C – 150°C	•	•	•
5.0SMDJ	DO-214AB	12–170	5000 W	136.5–1890 A (max)	-65°C – 150°C	•	•	•
5.0SMDJxxS	DO-214AB	6.0–58	5000 W	267.5–2669.7 A (max)	-65°C – 150°C	•	•	•
8.0SMDJ	DO-214AB	12–110	8000 W	293.8–2613.7 A (max)	-65°C – 150°C	•	•	•
SMTAK3	SMTAK	15–76	-	3 KA	-55°C – 125°C	•	•	•
**LTKAK1	SMT0-218	380	-	1 KA	-55°C – 125°C	•	•	•
**LTKAK2	SMT0-218	150–170	-	2 KA	-55°C – 125°C	•	•	•
LTKAK3	SMT0-218	66	-	3 KA	-55°C – 125°C	•	•	•
LTKAK6	SMT0-218	58–76	-	6 KA	-55°C – 125°C	•	•	•
LTKAK10	SMT0-218	58–86	-	10 KA	-55°C – 125°C	•	•	•

** UL approval is pending



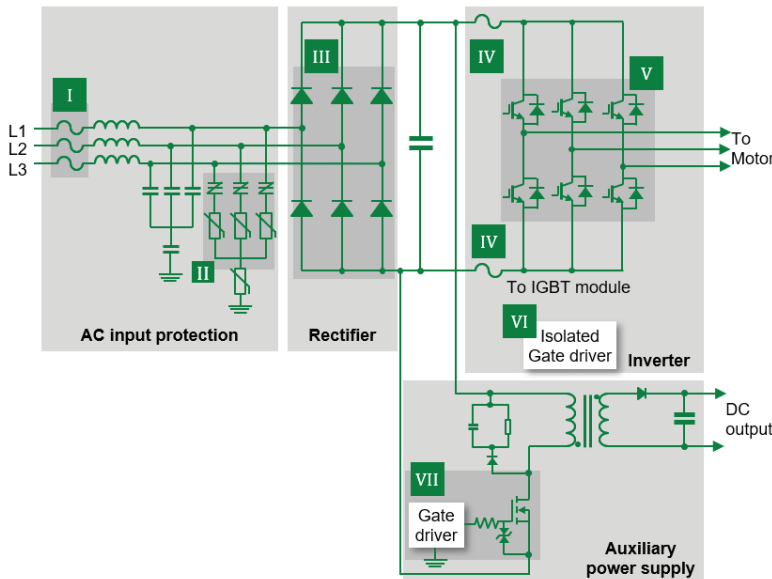
Surface-Mount Standard Application (200–3000 W)								
Series Name	Package Type	Reverse Standoff Voltage (VR)	Peak Pulse Power Range (PPP 10/1000 μ s)	Peak Pulse Current (IPP 80x20 μ s)	Operating Temperature	Halogen Free	RoHS Compliant	UL Recognized
SMF4L	SOD-123FL	5.0–250	400 W	-	-55°C – 150°C	•	•	•
SMF3.3	SOD-123FL	3.3	200 W	-	-55°C – 150°C	•	•	•
SMF	SOD-123	5.0–250	200 W	-	-65°C – 150°C	•	•	•
SMAJ	DO-214AC	5.0–440	400 W	-	-65°C – 150°C	•	•	•
P4SMA	DO-214AC	5.8–468	400 W	-	-65°C – 150°C	•	•	•
SMA6J	DO-214AC	5.0–130	600 W	-	-65°C – 150°C	•	•	•
SMA6L	DO-221AC	5.0–250	600 W	-	-65°C – 150°C	•	•	•
SACB	DO-214AA	5.0–50	500 W	-	-65°C – 150°C	•	•	•
SMBJ	DO-214AA	5.0–440	600 W	-	-65°C – 150°C	•	•	•
P6SMB	DO-214AA	5.8–512	600 W	-	-65°C – 150°C	•	•	•
1KSMB	DO-214AA	5.8–153	1000 W	-	-65°C – 150°C	•	•	•
1.5SMB	DO-214AA	17.1–85.5	1500 W	-	-65°C – 150°C	•	•	•
SMCJ	DO-214AB	5.0–440	1500 W	-	-65°C – 150°C	•	•	•
1.5SMC	DO-214AB	5.8–512	1500 W	-	-65°C – 150°C	•	•	•
3.0SMC	DO-214AB	20–33	-	365–570 A	-65°C – 150°C	•	•	•

Target Applications



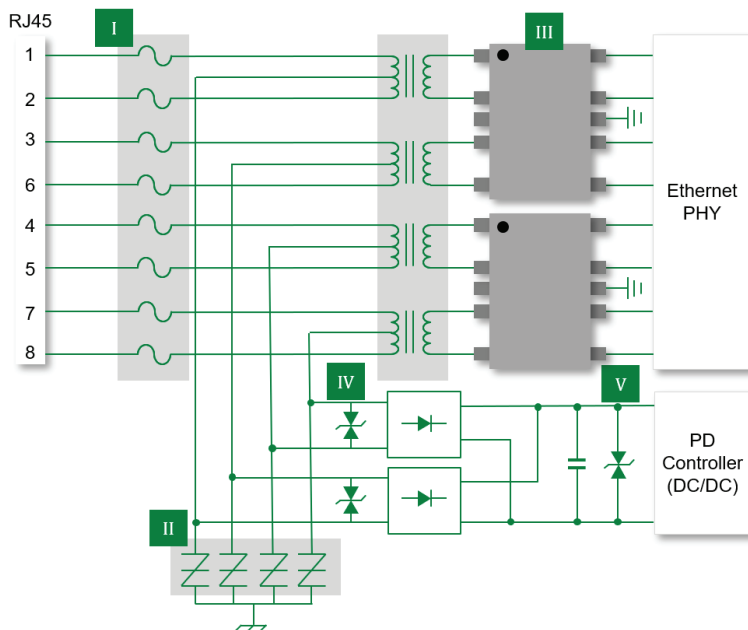
Click on the image to download detailed presentation.

Industrial Motor Drives and Auxiliary Power Supply



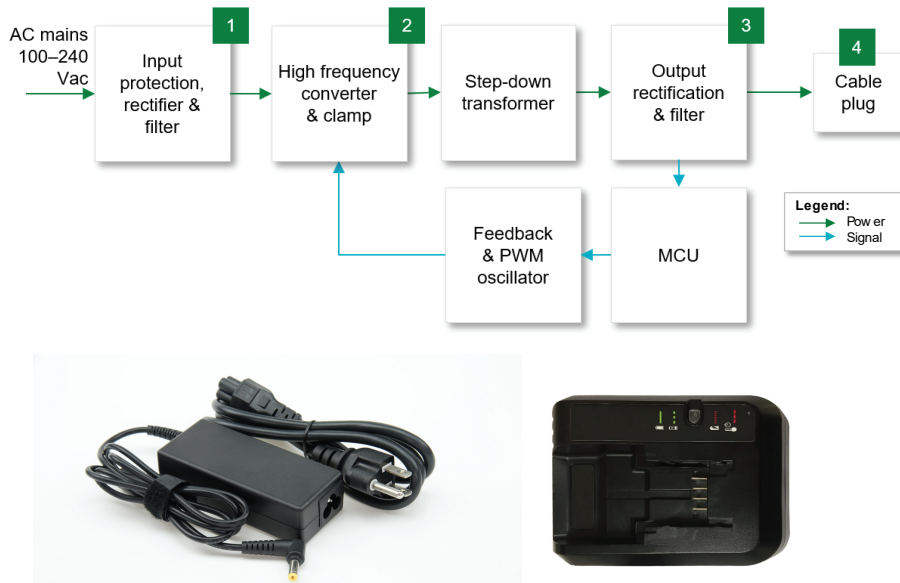
	Technology	Product Series
I	Fuse	JLS, JLLS 606, 504, 505
	Fuse Holder	LFT, LFJ
II	SIDACtor® + MOV	Pxxx0FNL, Pxxx0ME + UltraMOV
III	Rectifier Diode Module	MDD, VUQ
IV	Semiconductor Fuse	PSR
V	IGBT Module	MIXA, MIXG
VI	TVS Diode	SMBJ, P6SMB, SMCJ
VII	SiC MOSFET	LSIC1M0170E1000
	Gate Driver	IX4351NE
	TVS Diode	SMF

Power over Ethernet (PoE++)



	Technology	Product Series
I	Fuses x 8	0461002
II	SIDACtor® (x4)	P4500SCLRP
III	TVS Diode Array (x2)	SP2555NUTG
IV	TVS Diode (x2)	SMCJ58CA
V	TVS Diode (x1)	SMCJ58CA

Power Supply (AC Adapter/Li-ion Battery Charger)

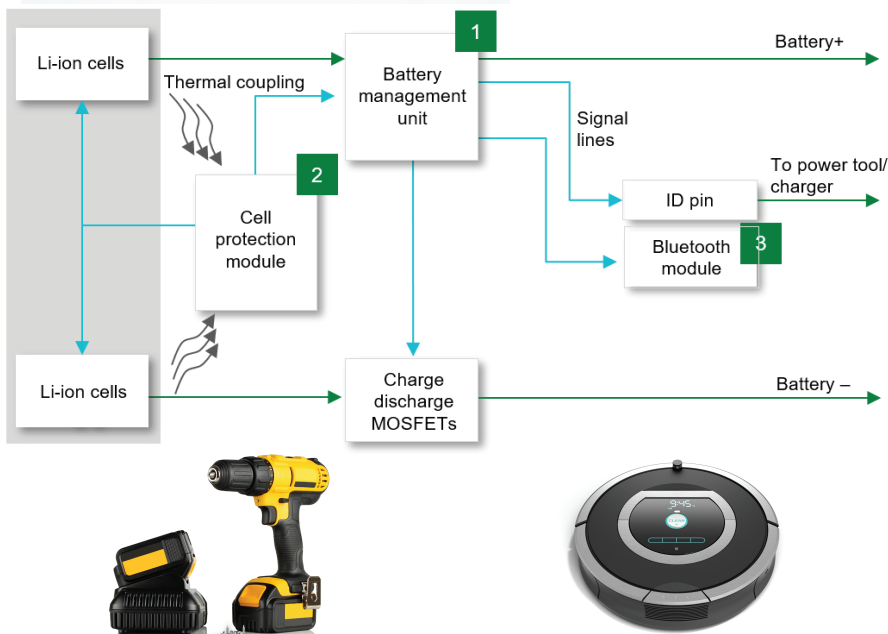


	Technology	Product Series
1	Fuses	875, 807, 373
	MOV	C-III, TMOV
	GDT *	CG3 3.3
2	TVS Diode	P6SMB, 8.0SMDJ, 1.5SMB, SMF4L
	MOSFET	X2-class
3	Schottky Diode	MBR, DST
4	setPTM **	SETP0805-100-CC

* GDT in series with TMOV is recommended for connection between L – P.E. or N – P.E. to comply with new IEC 62368-1 safety standards

** setPTM solution is recommended for USB type C port protection

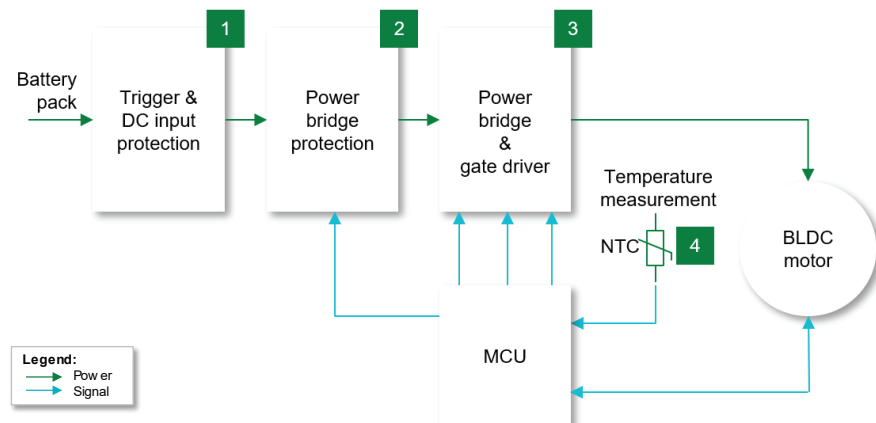
Li-ion Battery Management Solutions (Power Tools/Robotic Appliances)



	Technology	Product Series
1	Fuse	Midi Fuse, BF1, 881, 688
	TVS Diode	SMF, SMF4L
	PPTC	nanoSMD, Q805L
	Battery Protector	ITV
2	NTC	KC
3	TVS Diode Array	SP3021, SP1007

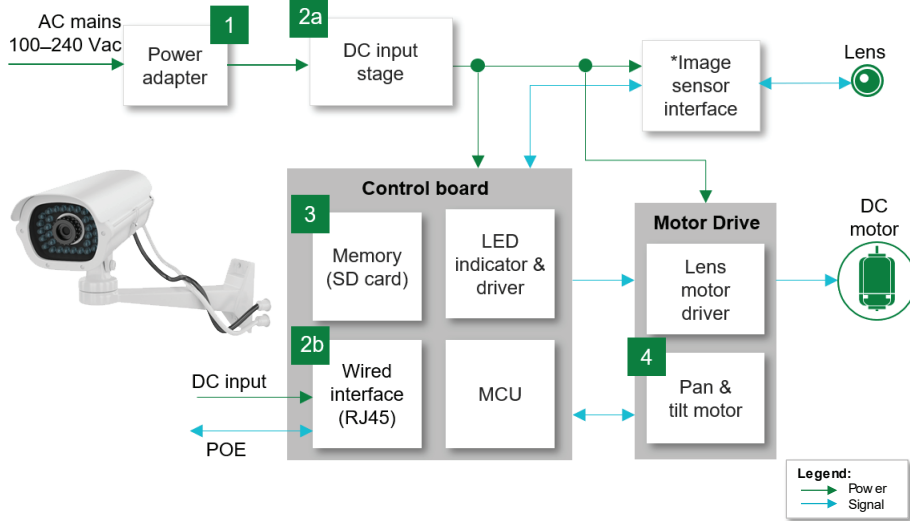
Legend:
→ Power
→ Signal

BLDC Motor Protection (Power Tools)



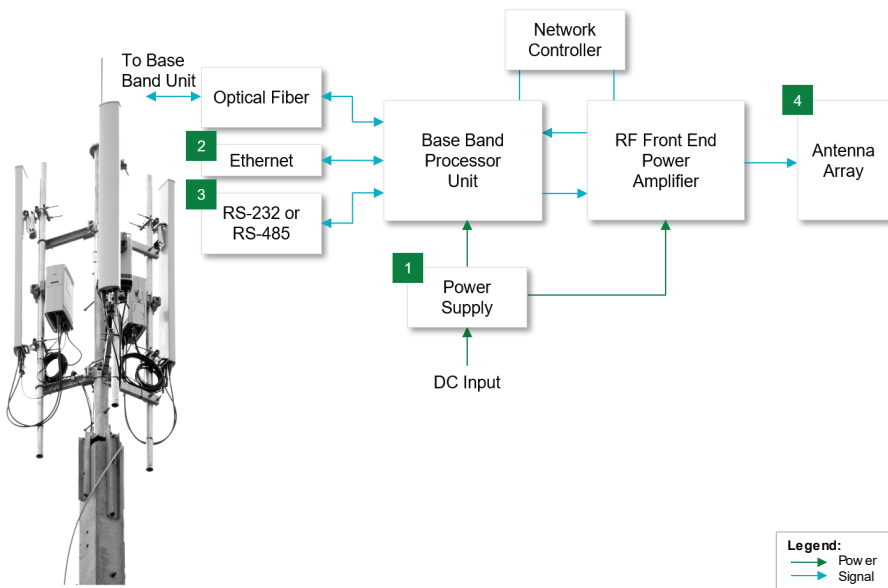
	Technology	Product Series
1	Fuse	501
	TVS Diode	SMAJ, SMBJ
	Reed Switch	MDSR-10, MDSM-10
2	NTC	KC
3	MOSFET	Gen2
4	NTC	KC

Security Camera



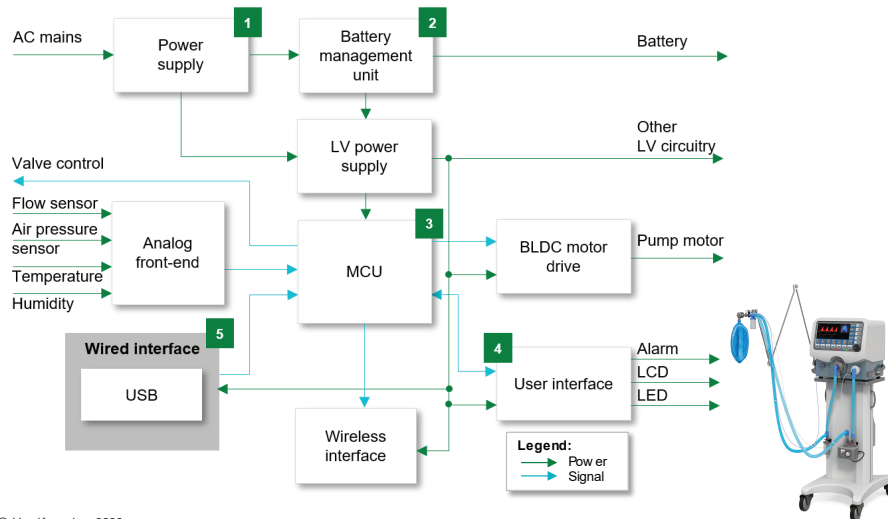
	Technology	Product Series
1	Fuses	875, 807, 373
	MOV	TMOV, LA, UltraMOV
	TVS Diode	P6SMB
2a	Fuse, PPTC	461, 449, picoSMD
	TVS Diode	5.0SMDJ
2b	Fuse, PPTC	461, 449, picoSMD
	TVS Diode Array	SRV05-4HTG, SP0504SHTG
3	TVS Diode Array	SP1006
4	Solid State Relay	CPC1560

Integrated Active Antenna System (AAS)



	Technology	Product Series
1	Fuse	456, 688
	MOV	LV UltraMOV
	GDT	CG
2	TVS Diode	LTKAK
	PPTC	T-Line
	SIDACtor®	SEP
3	TVS Diode Array	SP3400
	TVS Diode	SMxx
	TVS Diode	SMCJ, SMDJ
4	PPTC	T-Line
	Polymer ESD	XGD

Ventilator



	Technology	Product Series
1	Fuse, PPTC	215, 150, LVR
	MOV, MLV	UltraMOV, MLA
	TVS diode	SMCJ33CA, SMBJ36A
	Schottky Diode	DST560S
	Solid State Relay	CPC1017N, PLA134S
2	PPTC	2016L, 1206L
	TVS Diode Array	SP1305, SP1001
3	TVS Diode	SMA6J28A, SMF, 1.5SMC
4	NTC	LC
5	TVS Diode array	SP1103
	TVS Diode	SMF3.3A
	TVS Diode Array	SP3019, SP3400
	Temperature Indicator	setP™
	PPTC	miniSMDC, 0805L
	MLV	MLA