L&T SEMICONDUCTOR TECHNOLOGIES LIMITED

Power Discrete Products

LTSCT is a growing portfolio of Power Discrete include Silicon MOSFETS, SiC Diodes, Standard and Standard Bridge Rectifiers. Built on advanced Trench, Super Junction, and Shield Gate Trench technologies, LTSCT's Power Discrete devices are ideal for demanding power applications such as power supplies, white goods, solar and home inverters, BMS systems etc.

LTSCT's power discrete products are designed to minimize losses in power conversion application. Advancements in and package technologies have been combined to minimize losses, enhance ruggedness and offer high quality in high voltage applications.

Silicon MOSFETS

Low Voltage	Mid Voltage	High Voltage (SJ)	SiC MOSFETs
< 30V	40V – 300V	600/650V	650/750/ 1200/1700V
RDS ON 0.5mΩ	RDS ON 0.5mΩ	RDS ON 17mΩ	RDS ON 7.6mΩ
Up to 398A	Up to 700A	Up to 125A	Up to 200A

SiC Diodes

650V/ 1200V || 4A/ 6A/ 8A ~ 40A
TO-220/TO-247/PDFN5*6/ PDFN8*8/ TO252/

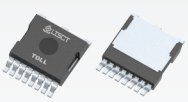
Standard Bridge Rectifiers

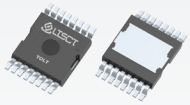
2A~60A, 200V/ 600V/ 1000V
Package Options: D3K/ KBJ/ GBU

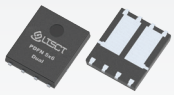
Standard Rectifiers

50V~1000V
1A~5A: SMA/SMB/ SMC Packages

Wide Range of Packages

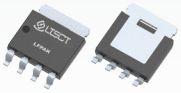

TOLL


TOLT

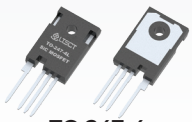

PDFN5x6 Dual


TO 263


SOT 223


LFPAK


TO 252


TO 247-4

Key differentiations

- Leverages technology IPs such as Trench and Split Gate Trench (SGT) technology to achieve the best cost to performance ratio
- Optimized for high efficiency performance by providing low RSP and enhanced thermal performance
- Options with integrated ESD protection diode to simplify board design

Typical applications

Telecom Power | Battery Management | Chargers | Power Supplies | E-Bikes | White Goods | Adaptors | Solar/Home Inverters

Future. Made Together.

Silicon MOSFETS Portfolio

LTSCT part #	Package	Configuration	Polarity	V_{DS} (V)	I_D (A)	$R_{DS(ON)}$ max (mΩ)
PFD110DV3-AA1	TO-220	Single	N	30	110	4
PFD205DV3-AA1	TO-220	Single	N	30	205	2.1
PFD165DV4-AA1	TO-220	Single	N	40	165	3.3
PFD260DV3-AA1	TO-220F	Single	N	30	260	1.8
PFD060DV6-AA1	TO-220	Single	N	60	60	12
PFD063DV6-AA1	TO-220	Single	N	60	63	8.5
PFD067EV6-AA1	TO-220F	Single	N	60	67	5.2
PFD170DV6-AA1	TO-220	Single	N	60	170	4.8
PFD185DV6-AA1	TO-220	Single	N	60	185	2.8
PFD120DV8-AA1	TO-220	Single	N	80	120	6.5
PFD174DV8-AA1	TO-220	Single	N	80	174	3.5
PFD115DV8-AA1	TO-220	Single	N	80	115	5.5
PFD011D01-AA1	TO-252	Single	N	100	11	152
PFD037D01-AA1	TO-220	Single	N	100	37	47
PFD120D01-AA1	TO-220	Single	N	100	120	4.5
PFD186D01-AA1	TO-220	Single	N	100	186	3.5
PFD422J10-AA1	TOLL	Single	N	100	422	1.5
PFD066A60-AA1	TO-247	Single	N	600	66	35
PFD031A06-AA1	TO-220	Single	N	650	31	99
PFD080A06-AA1	TO-247	Single	N	600	80	24
PSD080B07-AA1	TO-247-4	Single	N	750	80	25
PFD100P10-45N	PDFN5x6	Single	N	100	100	4.5
PFD200C11-94N	TO-263	Single	N	200	112	9.4
PFD200J14-98N	TOLL	Single	N	200	145	9.8
PFD080L24-22N	LFPAK5x6	Single	N	80	242	2.2
PFD100C30-22N	TO-263-6L	Single	N	100	308	2.2
PFD100C29-18N	TO-263-7	Single	N	100	297	1.8
PFD100J39-15N	TOLL	Single	N	100	399	1.5
PFD100J38-13N	TOLT	Single	N	100	385	1.35
PFD100A29-20N	TO-247	Single	N	100	290	2

SiC Diodes Portfolio

LTSCT part #	Package	V_R (V)	I_F (A)	V_F (V)	I_{FSM} (A)	P_{TOT} (W)
PSD065D10-G2	TO-220F-2	650	10	1.29	85	78
PSD120G40-G2	TO-247-2	1200	40	1.48	272	452
PSD120H05-G2	TO-252-2	1200	5	1.4	60	114

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