

3G

low forward voltage

low leakage current

smaller package outline

cost reduction



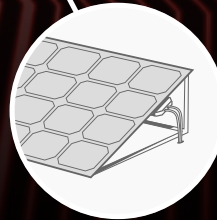
Lighting



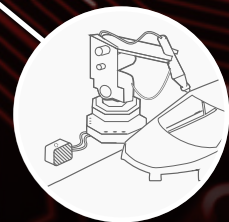
Consumer



Mobility



Energy



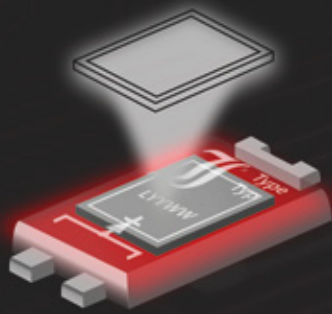
Industrial

3G Schottky

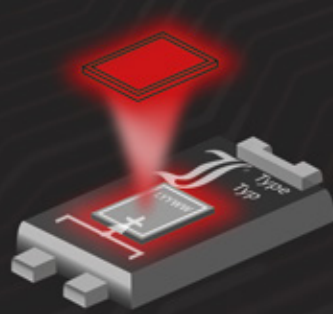
Redefined Solution

3rd Generation Technology by Diotec

Power Saving
Rugged Design
State-of-the-Art Performance



Standard Technology



3G Schottky Technology

Miniaturizing Chip Design
Smaller, Stronger, Smarter...

State-of-the-Art Performance

Typical Usage

Output Rectifier
Polarity Protection
Power LED Driver
HID Lamp Driver

Features/Benefits

Low Forward Voltage
Low Reverse Current
Low Power Losses
High ESD Robustness
Energy Savings
Less Heat Generation

3G Schottky Diodes for Lighting Applications

Part Number	V _{RRM} [V]	I _{FAV} [A]	V _F [V]	@ I _F /T _j	V _F [V]	@ I _F /T _j	I _R [μA]	@ V _R /T _j	C _j [pF]	Package
SGL34-40*	40	0.5	0.40	0.5A/25°C	0.35	0.5A/100°C	10	40V/25°C	55	DO-213AA/MiniMelf
SGL1-40*	40	1	0.45	1A/25°C	0.40	1A/100°C	10	40V/25°C	55	DO-213AA/MiniMelf
SGL15-40*	40	1.5	0.50	1.5A/25°C	0.45	1.5A/100°C	10	40V/25°C	55	DO-213AA/MiniMelf
SMS140*	40	1	0.38	1A/25°C	0.32	1A/100°C	40	40V/25°C	120	DO-213AB/Melf
SMS240*	40	2	0.42	2A/25°C	0.37	2A/100°C	40	40V/25°C	120	DO-213AB/Melf
SMS340*	40	3	0.45	3A/25°C	0.40	3A/100°C	40	40V/25°C	120	DO-213AB/Melf
SL32SMA-3G	20	3	0.43	3A/25°C	0.37	3A/100°C	15	20V/25°C	90	DO-214AC/SMA
SL34SMA-3G	40	3	0.43	3A/25°C	0.37	3A/100°C	60	40V/25°C	90	DO-214AC/SMA
SK34SMA-3G	40	3	0.48	3A/25°C	0.43	3A/100°C	30	40V/25°C	90	DO-214AC/SMA
SL52-3G	20	5	0.42	5A/25°C	0.37	5A/100°C	20	20V/25°C	90	DO-214AA/SMB
SL54-3G	40	5	0.42	5A/25°C	0.37	5A/100°C	150	40V/25°C	320	DO-214AA/SMB
SK54-3G	40	5	0.47	5A/25°C	0.42	5A/100°C	20	40V/25°C	340	DO-214AA/SMB
SL82-3G	20	8	0.47	5A/25°C	0.39	5A/100°C	20	20V/25°C	320	DO-214AB/SMC
SL84-3G	40	8	0.47	8A/25°C	0.39	8A/100°C	150	40V/25°C	320	DO-214AB/SMC
SK84-3G	40	8	0.51	8A/25°C	0.44	8A/100°C	30	40V/25°C	340	DO-214AB/SMC
PPS1045-3G	45	10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-277B/PowerSMD
SK1045D2-3G	45	10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-263AB/D ² PAK
SBT1040-3G	40	10	0.48	10A/25°C	0.42	10A/100°C	60	40V/25°C	510	TO-220AC
SBT1045-3G	45	10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-220AC
PPS1545-3G	45	15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-277B/PowerSMD
SK1545YD2-3G	45	15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK

*coming 2Q 2019