

**3G**

low forward voltage

low leakage current

smaller package outline

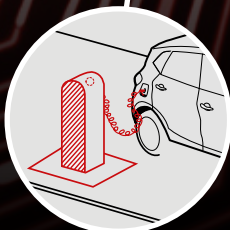
cost reduction



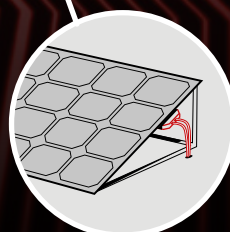
Lighting



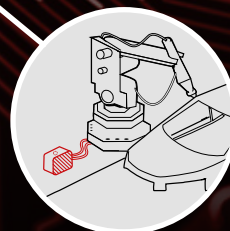
Consumer



Mobility



Energy



Industrial

**3G Schottky**

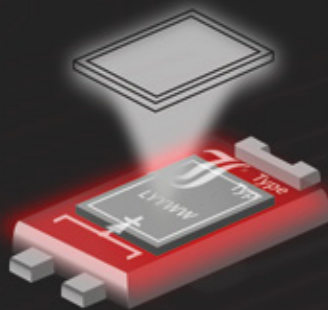
## Redefined Solution

**3rd Generation Technology by Diotec**

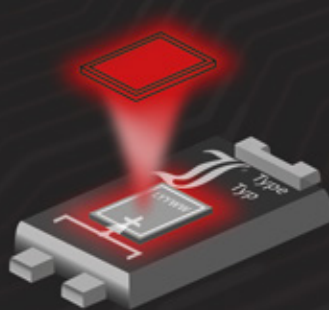
Power Saving

Better than Trench MOS

Best State-of-the-Art Performance



Standard Technology



3G Schottky Technology

**Miniaturizing Chip Design**  
Smaller, Stronger, Smarter...

## Best 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  
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]	@ $I_F/T_j$	$I_R$ [ $\mu$ A]	@ $V_R/T_j$	$C_j$ [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
SK1040D2-3G	40	10	0.48	10A/25°C	0.42	10A/100°C	60	40V/25°C	510	TO-263AB/D <sup>2</sup> PAK
SK1045D2-3G	45	10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-263AB/D <sup>2</sup> 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
SK1540YD2-3G	40	15	0.52	15A/25°C	0.43	15A/100°C	70	40V/25°C	720	TO-263AB/D <sup>2</sup> PAK
SK1545YD2-3G	45	15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D <sup>2</sup> PAK

\*coming 2Q 2019