

3G

low forward voltage

low leakage current

smaller package outline

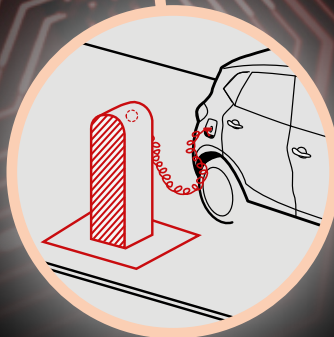
cost reduction



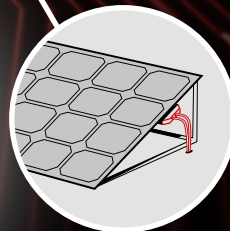
Lighting



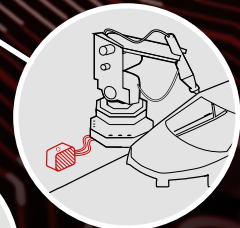
Consumer



Mobility



Energy



Industrial

Schottky
3G

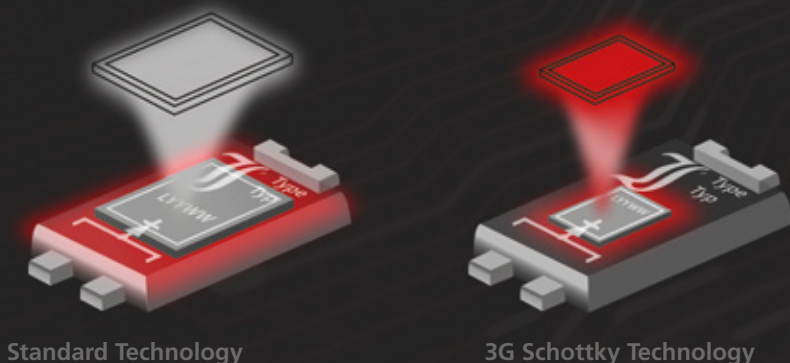
Redefined Solution

3rd Generation Technology by Diotec

Power Saving

Better than Trench MOS

Best State-of-the-Art Performance



Miniaturizing Chip Design
Smaller, Stronger, Smarter...

Best State-of-the-Art Performance

Typical Usage

Polarity Protection
DC/DC Converter
Battery Charger
Free-Wheeling Diodes

LED Driver
OR-ing Diodes

Features/Benefits

Low Forward Voltage
Low Reverse Current
High Power Dissipation
High ESD Robustness

Energy Savings
Available with
AEC-Q101 rating

3G Schottky Diodes for Mobility 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 [μ 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 ² PAK
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
SK1540YD2-3G	40	15	0.52	15A/25°C	0.43	15A/100°C	70	40V/25°C	720	TO-263AB/D ² PAK
SK1545YD2-3G	45	15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SK1840D2-3G	40	18	0.53	18A/25°C	0.44	18A/100°C	70	40V/25°C	720	TO-263AB/D ² PAK
SK1845D2-3G	45	18	0.53	18A/25°C	0.44	18A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SBT1840-3G	40	18	0.53	18A/25°C	0.44	18A/100°C	70	40V/25°C	720	TO-220AC
SBT1845-3G	45	18	0.53	18A/25°C	0.44	18A/100°C	80	45V/25°C	720	TO-220AC
SK2040YD2-3G	40	20	0.52	20A/25°C	0.43	20A/100°C	70	40V/25°C	720	TO-263AB/D ² PAK
SK2045YD2-3G	45	20	0.52	20A/25°C	0.43	20A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SK2040CD2-3G	40	2x10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-263AB/D ² PAK
SK2045CD2-3G	45	2x10	0.48	10A/25°C	0.42	10A/100°C	70	45V/25°C	510	TO-263AB/D ² PAK
SK2540YD2-3G	40	25	0.54	25A/25°C	0.49	25A/100°C	40	40V/25°C	800	TO-263AB/D ² PAK
SK2545YD2-3G	45	25	0.54	25A/25°C	0.49	25A/100°C	60	45V/25°C	800	TO-263AB/D ² PAK
SK3040CD2-3G	40	2x15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SK3045CD2-3G	45	2x15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SK4045CD2-3G	45	2x20	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	TO-263AB/D ² PAK
SB1240-3G	40	12	0.49	12A/25°C	0.44	12A/100°C	60	40V/25°C	510	~DO-201
SB1540-3G	40	18	0.53	18A/25°C	0.44	15A/100°C	60	40V/25°C	720	D5.4x7.5
155Q045-3G	45	15	0.52	15A/25°C	0.43	15A/100°C	80	45V/25°C	720	D5.4x7.5
SBX2040-3G	40	20	0.52	15A/25°C	0.43	20A/100°C	70	40V/25°C	720	D5.4x7.5 - Low R th
205Q045-3G	45	20	0.52	15A/25°C	0.43	20A/100°C	80	45V/25°C	720	D5.4x7.5
SBX2540-3G	40	25	0.54	25A/25°C	0.49	25A/100°C	70	40V/25°C	720	D5.4x7.5 - Low R th
SBX3040-3G	40	30	0.54	30A/25°C	0.49	30A/100°C	50	40V/25°C	720	D5.4x7.5 - Low R th

*coming 2Q 2019