

3G

low forward voltage

low leakage current

smaller package outline

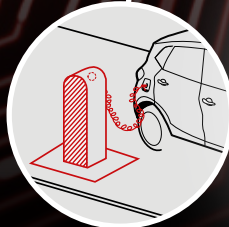
cost reduction



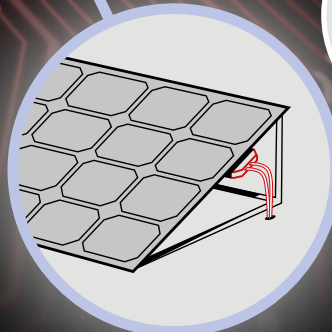
Lighting



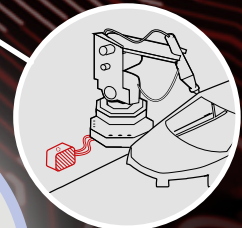
Consumer



Mobility



Energy



Industrial

3G Schottky

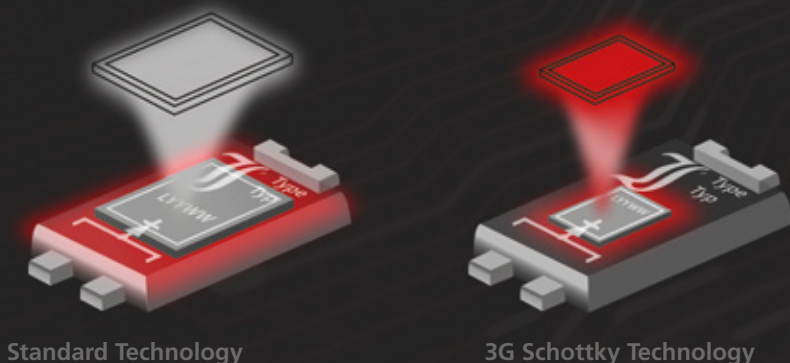
Redefined Solution

3rd Generation Technology by Diotec

Power Saving

Better than Trench MOS

Best State-of-the-Art Performance



Miniaturizing Chip Design
Smaller, Stronger, Smarter...

Best State-of-the-Art Performance

Typical Usage

Solar Bypass Diodes
High Current Power Supplies
Polarity Protection
Power Battery Charger
Free-Wheeling Diodes
DC/DC Converter

Features/Benefits

Best trade-off between V_F and I_R
Low Forward Voltage
Low Reverse Current
High Power Dissipation
High ESD Robustness
Reduced Risk of Thermal Runaway
Energy Savings

3G Schottky Diodes for Energy 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
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
15SQ045-3G	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
20SQ045-3G	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