

NXP low V_F Schottky rectifier (single & dual) in DFN2020-3

1 and 2 A Schottky rectifiers in leadless medium-power package

These low V_F Schottky rectifiers, the first to be housed in the leadless medium-power DFN2020-3 (SOT1061) package, offer high forward current capability with low forward voltage. With integrated guard ring for stress protection, a footprint of only 2.0 x 2.0 mm, and a height of 0.62 mm, they offer great opportunities for miniaturization in high-performance applications.

KEY FEATURES & BENEFITS

- Average forward current up to 2 A
- ▶ Reverse voltage: VR between 20 to 60 V
- ▶ Low forward voltage drop for low power consumption
- ▶ AEC-Q101 qualified
- Excellent electrical performance in a 2 x 2 mm package for smaller more compact PCB designs
- Exposed heat sink
- ▶ Single & dual c.c. configuration

KEY APPLICATIONS

- Low voltage rectification
- ▶ High efficiency DC-to-DC conversion
- Switch Mode Power Supply (SMPS)
- Reverse polarity protection
- ▶ Battery chargers for mobile equipment
- LED backlight for mobile application

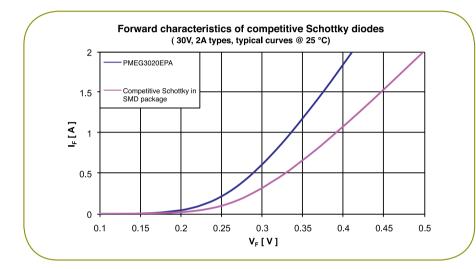


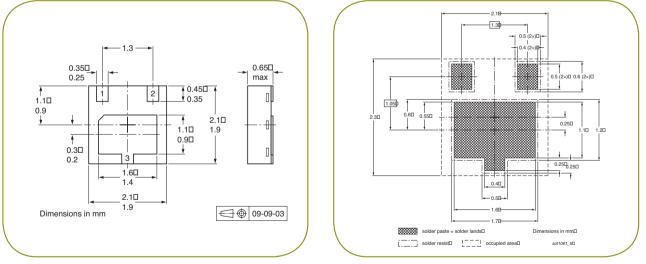
2.0 x 2.0 x 0.62 mm



Low V_F (MEGA) Schottky family in DFN2020-3 (SOT1061)

					DFN2020-3 (SOT1061) Single	DFN2020-3 (SOT1061) Dual c.c.
l _F max (A)	V _R max (V)	V _F max (mV) @I _F max	max (mA) ' V _R max	Package		
				Size (mm)	2.0 x 2.0 x 0.62	2.0 x 2.0 x 0.62
<u>۳</u>	>"	>	ב> _≚©	P _{tot} (W)	0.96	0.96
1	20	375	1.9	Low V _F	PMEG2010EPA	
	40	500	0.055	Low I _R		PMEG4010CPA
	60	540	0.1	Low I _R		PMEG6010CPA
2	20	420	1.9	Low V _F	PMEG2020EPA	
	20	420	1	Low V _F		PMEG2020CPA
	30	470	2.5	Low V _F	PMEG3020EPA	
	30	440	2	Low V _F		PMEG3020CPA
	40	535	0.1	Low I _R	PMEG4020EPA	
	60	575	0.25	Low I _R	PMEG6020EPA	





Minimized outline

Reflow soldering footprint

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