

Product profile

High Current Density Surface Mount Ultra Low VF Schottky Rectifier

General description

Rectifiers 20 Amp 60V

Features

Very low profile - typical height of 1.1 mm Ideal for automated placement

Low forward voltage drop, low power losses

High efficiency

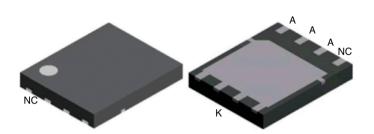
Low thermal resistance

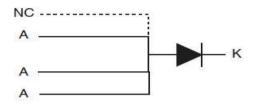
Meets MSL level 1, per J-STD-020

Solder dip 260 °C max. 10 s, per JESD 22-A111

Compliant to RoHS directive 2002/95/EC and in

accordance to WEEE 2002/96/EC





Mechanical data

Case: DFN 5X6

Molding compound meets UL 94 V-0 flammability

Maximum Ratings (Tc=25°C unless otherwise noted)					
Parameter		Symbol	SD2060P	Unit	
Maximum repetitive peak reverse voltage		VRRM	60	V	
RMS Voltage (Max.)		VRMS	48	V	
Working peak reverse voltage		VRWM	60	V	
Maximum average forward rectified current T	otal Device	IF(AV)	20	А	
Peak forward surge current					
8.3ms single half sine-wave superimposed		IFSM	210	А	
on rated load (JEDEC Method)					
Operating junction temperature range		TJ	-55 to +150	°C	
Storage temperature range		TSTG	-55 to +150	°C	

THERMAL CHARACTERISTICS					
Parameter	Symbol	Value	Unit		
Typical thermal resistance	RθJC	10	°C/W		

Notes: (1) Pulse test: 300 µs pulse width, 1 % duty cycle

(2) Pulse test: Pulse width ≤ 40



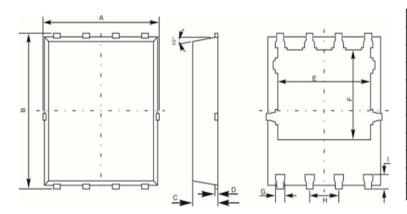
Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage				
at IF=10A, Tj=25°C		0.43	0.55	
at IF=20A, Tj=25°C	VF	0.48	0.58	V
at IF=10A, Tj=125°C		0.32	-	
at IF=20A, Tj=125°C		0.42	0.52	
Maximum reverse current Tj=25°C	ID	200		u'A
at working peak reverse voltage Tj=125°C	lR	100		m'A

DEVICE MARK

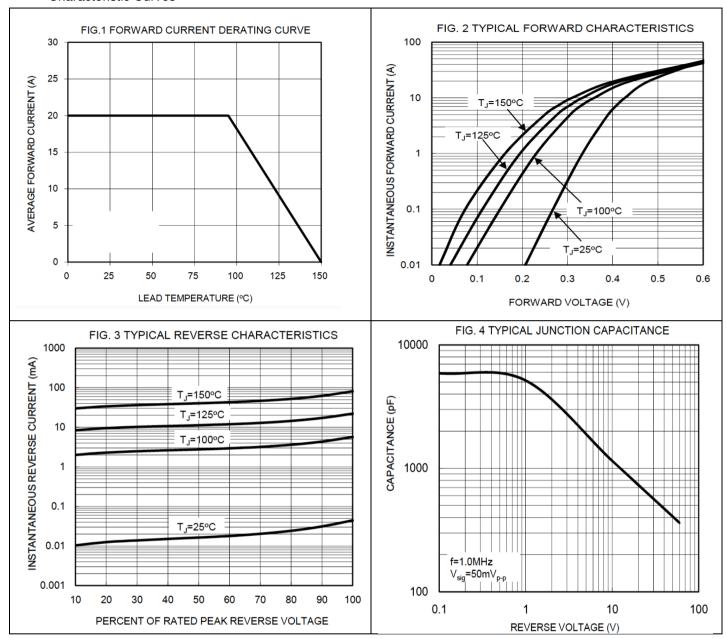
SD2060P



Dim.	Min.	Max.	
Α	5.02 typ.		
В	6.15 typ.		
С	0.80	1.05	
D	0.254 Ref.		
Е	3.91	4.11	
F	3.38	3.58	
G	0.30	0.50	
Н	1.27 Ref.		
- 1	0.45	0.65	
All Dimensions in millimeter			



■ Characteristic Curves





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