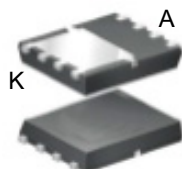
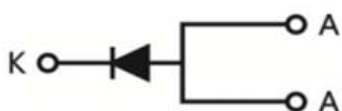


20A, 60V Trench Schottky Rectifier



PDFN5*6



Features

- Advanced trench technology
- Low forward voltage drop
- Low power losses
- High efficiency operation
- Lead Free Finish, RoHS Compliant

Applications

- DC/DC Converters
- AC/DC Adaptors
- Switching Power Supplies
- Freewheeling Diodes

Maximum ratings and electrical characteristics (T_J = 25°C unless otherwise noted)

Parameter		Symbol	Limit		Unit
Maximum repetitive peak reverse voltage		VRRM	60		V
Maximum average forward rectified current		I _{F(AV)}	20		A
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load per diode		I _{FSM}	200		A
Operating junction and storage temperature range		T _J , T _{STG}	-55 to +150		°C
Typical thermal resistance per leg	PDFN5*6	R _{θJA}	10		°C/W
Instantaneous forward voltage per diode	I _F =2A	T _J =25°C	TYP.	MAX.	V
			0.31	-	
	I _F =20A	T _J =125°C	0.53	0.58	
			0.25	-	
I _F =20A	T _J =125°C	0.46	-		
Instantaneous reverse current per diode at rated reverse voltage	T _J =25°C	I _{R(2)}	80	300	uA
	T _J =125°C		-	50	mA

Notes:

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

(2) Pulse test: Pulse width ≤ 40 ms

RATINGS AND CHARACTERISTICS CURVES ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

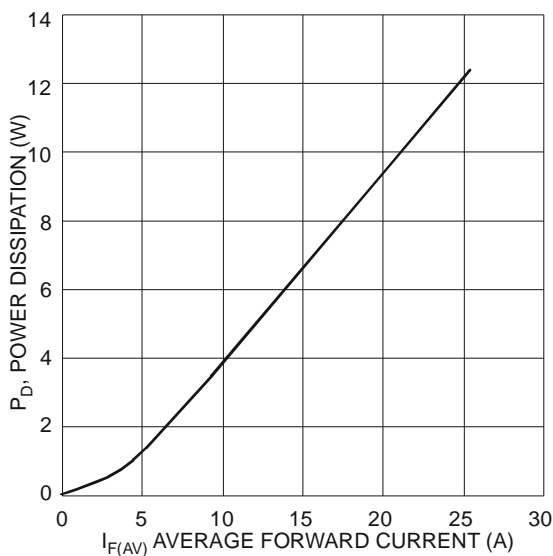


Figure 1 Forward Power Dissipation

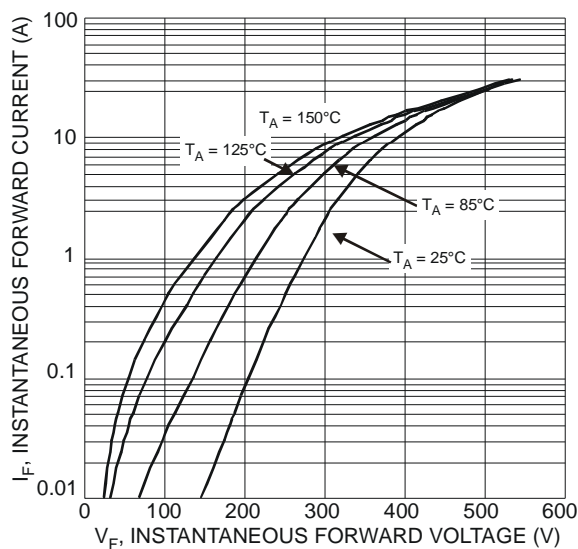


Figure 2 Typical Forward Characteristics

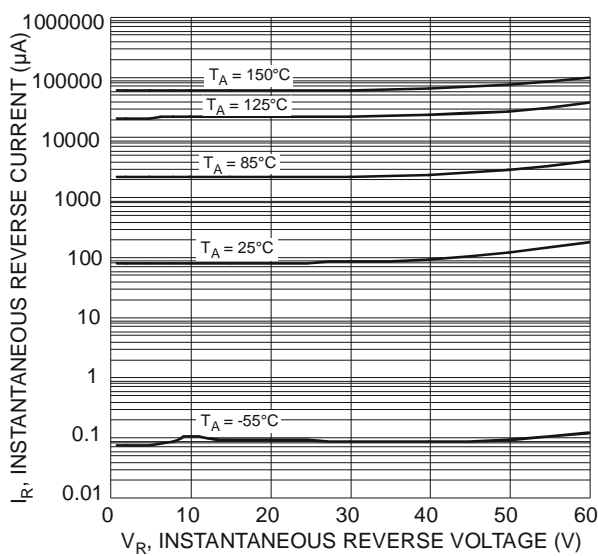


Figure 3 Typical Reverse Characteristics

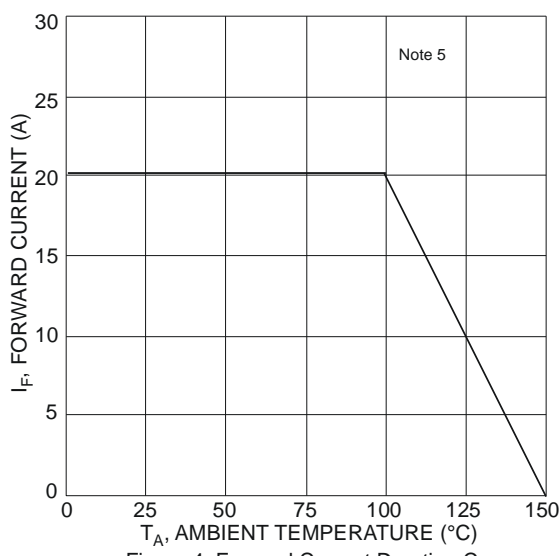


Figure 4 Forward Current Derating Curve

PACKAGE OUTLINE DIMENSIONS

POWER DFN 5x6

Unit: millimeters

