



High Voltage Trench Schottky Diode

FEATURES

- Trench MOS Schottky technology
- Die in 6" Wafer Form
- 80V, 15A*
- $V_F=0.66V$ (typ.)***

Electrical Characteristics (T_j=25°C)

Parameter	Description	Min.	Typ.	Max.	Unit	Test Condition
V_{RRM}	Maximum repetitive peak reverse voltage	80	91	—	V	$I_R=500\mu A$
V_F	Static Forward Voltage	—	0.38	0.47	V	$I_F = 1A$
		—	0.55	0.63	V	$I_F = 8A$
		—	0.66	0.73	V	$I_F = 15A$
I_R^{***}	Cathode-To-Anode Leakage Current	—	8	30	μA	$V_R = 80V$
T_J, T_{STG}	Operating and Storage Temperature Range	-55°C to 150°C Max				
*** Pulse width < 300 uS, Duty cycle < 2%						

Mechanical Data

Die Size	2106×2106	μm^2	CHIP DRAWING (Scribe Line is Excluded)	
Source Pad Size	1800 × 1800	μm^2		
Scribe Line Size	60	μm		
Wafer Diameter	6	in		
Wafer Thickness	250	μm		
Estimated Gross Die	3611(Yield>98%)			
Anode Metal Thickness	Al\Ti\ Ni\Ag (2.8um\0.1um\0.2um\1.8um)			
Cathode Metal Thickness	Ti\Ni\Ag (0.2um\0.3um\2um)			
Recommended Storage Environment	Store in original container, in dry nitrogen, < 6 months at an ambient temperature of 23°C±3°C >			

* Electrical characteristics are reported for the reference packaged part (TO-220) and can not be guaranteed in die sales form.

** Electrical characteristics are reported for the bare die. Variations in customer packaging materials, dimensions and processes may affect parametric performance.