



High Voltage Trench Schottky Diode

FEATURES

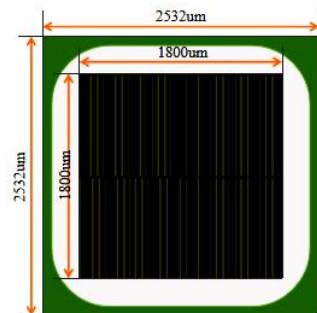
- Trench MOS Schottky technology
- Die in 6" Wafer Form
- 120V, 10A*
- $V_F=0.68V$ (typ.)***

Electrical Characteristics (T_j=25°C)

Parameter	Description	Min.	Typ.	Max.	Unit	Test Condition
V_{RRM}	Maximum repetitive peak reverse voltage	125	135	—	V	$I_R=500\mu A$
V_F	Static Forward Voltage	—	0.38	0.45	V	$I_F=1A$
		—	0.54	0.60	V	$I_F=5A$
		—	0.68	0.73	V	$I_F=10A$
I_R^{***}	Cathode-To-Anode Leakage Current	—	12	30	μA	$V_R=120V$
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	2592×2592	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	2372(Yield>97%)			
Anode Metal Thickness	AlSiCu(5.5um)			
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.