

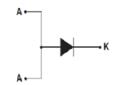
Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 25 Amperes

#### **Features**

#### Ultra Low Vf=0.40V at IF=10A (25°C)/Vf=0.50 V at IF=25A (25°C)

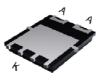
- Thin Package:1.0mm
- Low forward voltage drop, low power losses
- High efficiency operation
- Halogen Free Plastic package has underwriters Laboratory
  Flammability Classification 94V-0



Package: POWER QFN5x6



50



°C /W

### **Mechanical Data**

- Case: Epoxy, Molded
- Weight: 0.1grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 sec
- Shipped 3000 units per reel

### Maximum Ratings & Electrical Characteristics

(T<sub>A</sub>=25°C unless otherwise noted)

PARAMETER		TEST		SYMBOL	SMBRP2560	UNIT
		CONI	DITIONS			
Maximum repetitive peak reverse voltage				VRRM	60	V
Working peak reverse voltage				VRWM	60	٧
Maximum DC blocking voltage				VDC	60	٧
Maximum average forward rectified current at				Ir(AV)	25	Α
Tc=105°C tota	l device per diode					
Peak forward surge current 8.3ms single half sine-wave superimposed				IFSM	200	Α
on rated load per diode						
Peak repetitive reverse current per leg at t <sub>P</sub> =2.0us ,1KHz				IRRM	2.0	Α
Operating junction temperature range				TJ	—55 to+150	°C
Storage temperature range				Тѕтс	—55 to+150	°C
Maximum instantaneous forward voltage per leg		I=25A	Tc=25℃	,,	0.55(0.50 TYP)	
		IF=25A	Tc=125℃	VF	0.48	V
Maximum reverse current per leg at working peak			TJ=25℃	lR	500	uA
Reverse voltage			TJ=100°C		50	mA
	Thermal Characteristics Ta	= <b>25℃ un</b> l	ess otherwi	se noted		
Symbol	Parameter	TYP (POWER QFN 5x6) Unit				
RθJC	Thermal Resistance, Junction to Case per Leg	2.5 °C /W				

Note: Pulse test:300us pulse width, duty cycle=2%

Thermal Resistance, Junction to Ambient per Leg

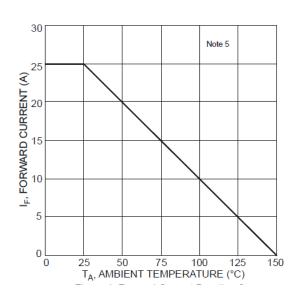
RθJA

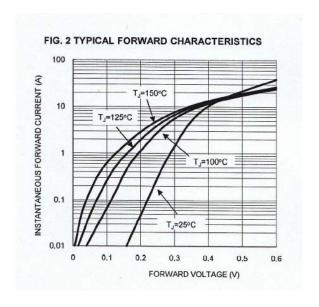
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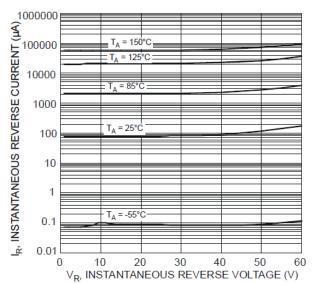
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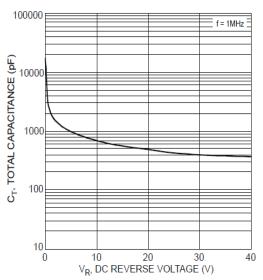
#### **Ratings and Characteristics Curves**

(T<sub>A</sub> = 25<sup>o</sup>C unless otherwise noted)











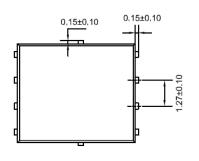
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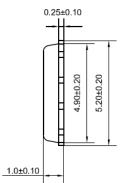
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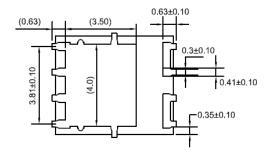
### **Package Outline Dimensions**

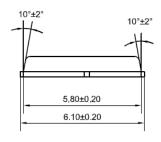
Unit: millimeters

# POWER QFN 5x6











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#### **Disclaimers**

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