

AMBRP560

Schottky Barrier Rectifier

Reverse Voltage 60 Volts Forward Current 5 Amperes

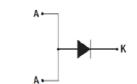
<u>Features</u>

High performance for Automotive and other application

Very low leakage <5ua at 25°C

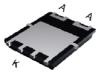
Thin Package:1.0mm

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



Package: POWER QFN5x6





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_A=25°C unless otherwise noted)

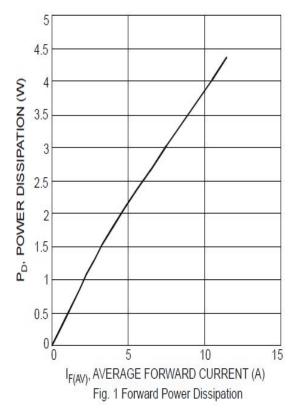
PARAMETER		TEST		SYMBOL	AMBRP560	UNIT
		CON	DITIONS			
Maximum repetitive peak reverse voltage				VRRM	60	V
Working peak reverse voltage				Vrwm	60	V
Maximum DC blocking voltage				VDC	60	V
Maximum average forward rectified current at				IF(AV)	5	Α
Tc=105°C to	al device per diode					
Peak forward surge current 8.3ms single half sine-wave superimposed				IFSM	150	Α
on rated load per diode						
Peak repetitive reverse current per leg at t _P =2.0us ,1KHz				IRRM	1.0	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 _F =5A	Tc=25℃	VF	0.65	V
		I=5A	Tc=125℃		0.60	
Maximum reverse current per leg at working peak			TJ=25℃	l _R	20	uA
Reverse voltage			TJ=100°C		2	mA
	Thermal Characteristics Ta	= 25 ℃ ur	less otherw	ise noted		
Symbol	Parameter	TYP (POWER QFN 5x6) Unit				
RθJC	Thermal Resistance, Junction to Case per Leg	3.5 °C /W				
RθJA	Thermal Resistance, Junction to Ambient per Leg	50 °C /W				

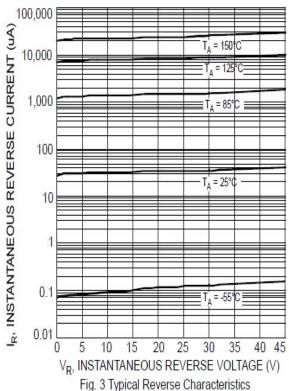
Note: Pulse test:300us pulse width, duty cycle=2%

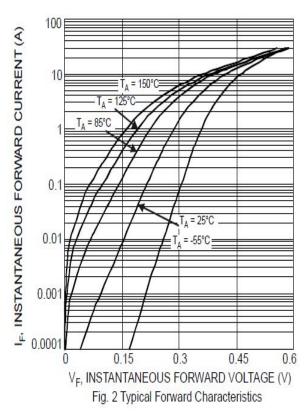
Schottky Barrier Rectifier Reverse Voltage 60 Volts Forward Current 5 Amperes

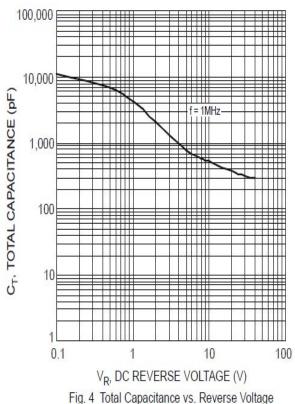
Ratings and Characteristics Curves

(T_A = 25^oC unless otherwise noted)











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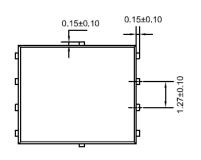
Schottky Barrier Rectifier

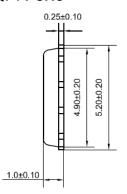
Reverse Voltage 60 Volts Forward Current 5 Amperes

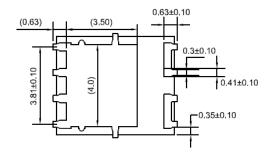
Package Outline Dimensions

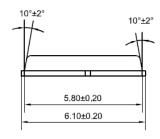
Unit: millimeters

POWER QFN 5x6











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