SIRECT
ELECTRONIC

SSR5V6

Trench MOS Barrier Schottky Rectifier - 5Amp 60Volt

☐ Features

-For surface mounted applications
-Low profile package
-Built-in strain relief
-Metal silicon junction, majority carrier conduction
-Low power loss, high efficiency
-High current capability, low forward voltage drop
-High temperature soldering guaranteed
-High reliability
-High surge current capability
-Epitaxial construction
-Lead free device
-Halogen-Free

☐ Mechanical data

-Case : Molded plastic
-Epoxy : UL 94V-0 rate flame retardant
-Terminals : Solder plated, solderable per MIL-STD-750,method 2026
-Polarity : Color band denotes cathode end
-Weight : 0.002 ounce 0.064 grams

☐ Maximum ratings and Electrical characteristics

Parameters		SSR5V6	UNIT
Maximum Recurrent Peak Reverse Voltage		60	V
Maximum RMS Voltage		42	V
Maximum DC Blocking Voltage		60	V
Maximum Average Forward Rectified Current		5	A
Peak Forward Surge Current		100	A
Maximum Instantaneous Forward Voltage at 5A	Tc = 25°C	0.55	V
	Tc = 125°C	0.50	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5	mA
	Tc = 100°C	20	
Typical Junction Capacitance		500	pF
Typical Thermal Resistance $R_{\theta JL}$ (Note 1)		25	°C/W
Operating and Storage Temperature Range		-50 to +125	°C

Note : 1. Mounted on P.C.B with copper pad size 8mm x 8mm

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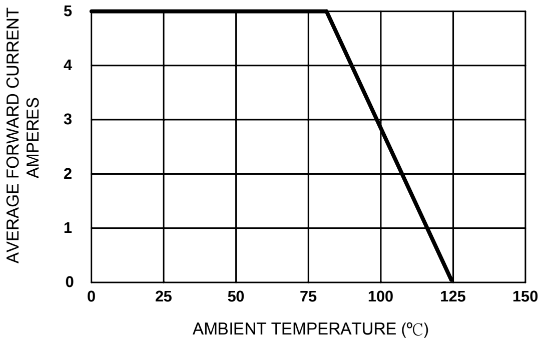

Figure 1. Forward Current Derating Curve

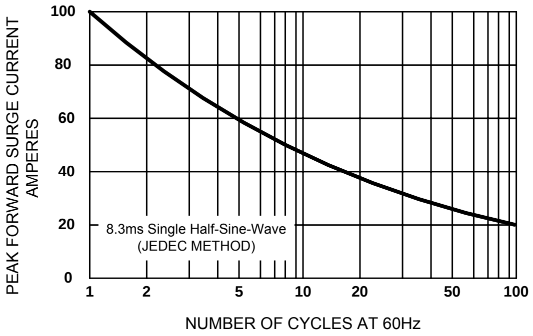

Figure 2. Maximum Non-repetitive Surge Current

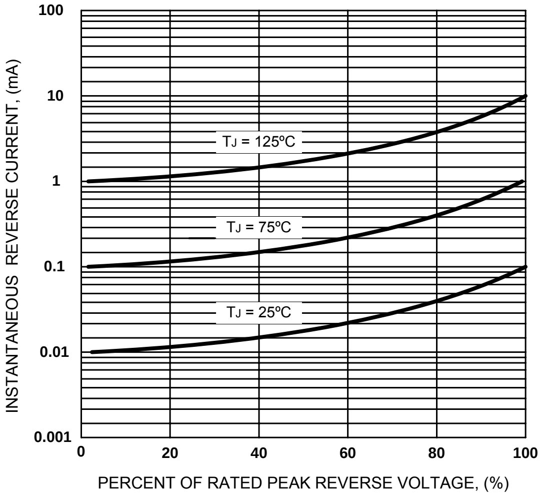

Figure 3. Typical Reverse Characteristics

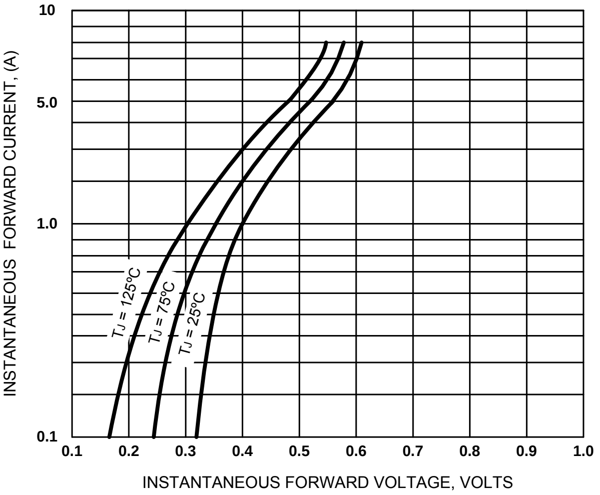

Figure 4. Typical Forward Characteristics

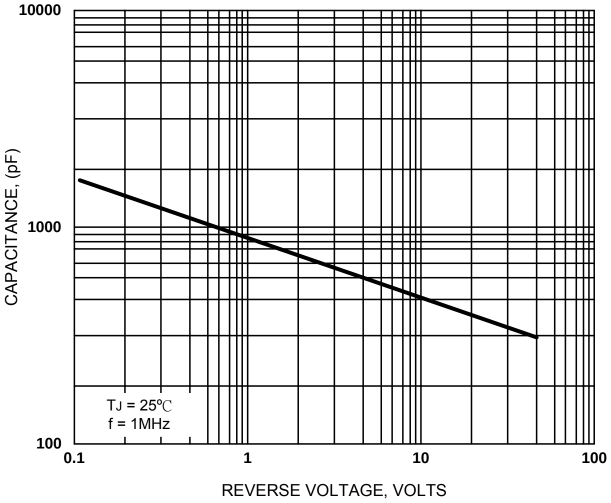

Figure 5. Typical Junction Capacitance

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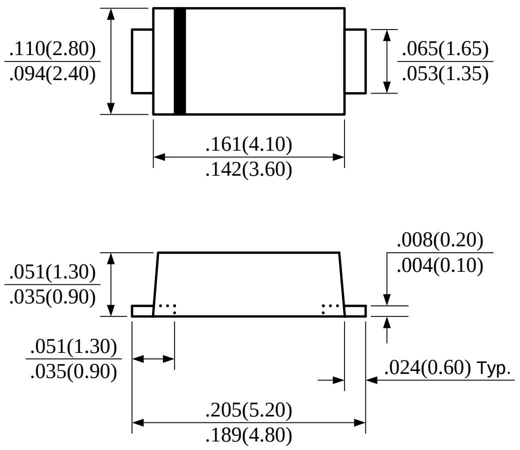
SMA - FT



UNIT : inch(mm)