SIRECT
ELECTRONIC

SDA14 ~ SDA110

Power Schottky Rectifier - 1Amp 40~100Volt

☐ 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

☐ Maximum ratings and Electrical characteristics

Parameters		SDA14	SDA16	SDA110	UNIT
Maximum Recurrent Peak Reverse Voltage		40	60	100	V
Maximum RMS Voltage		28	42	70	V
Maximum DC Blocking Voltage		40	60	100	V
Maximum Average Forward Rectified Current		1			A
Peak Forward Surge Current		30			A
Maximum Instantaneous Forward Voltage at 1A	Tc = 25°C	0.55	0.65	0.85	V
	Tc = 125°C	0.50	0.55	0.66	
Maximum Average Reverse Current at Rated DC Blocking Voltage	Tc = 25°C	0.5		0.05	mA
	Tc = 100°C	20		10	
Typical Junction Capacitance		100			pF
Typical Thermal Resistance $R_{\theta JL}$ (Note 1)		30			°C/W
Operating and Storage Temperature Range		-50 to +125		-50 to +150	°C

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

December 2018 / Rev.7.2

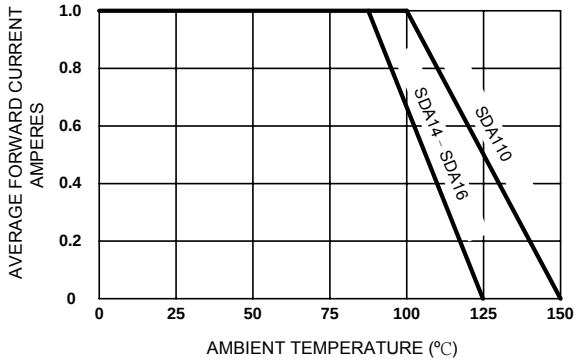


Figure 1. Forward Current Derating Curve

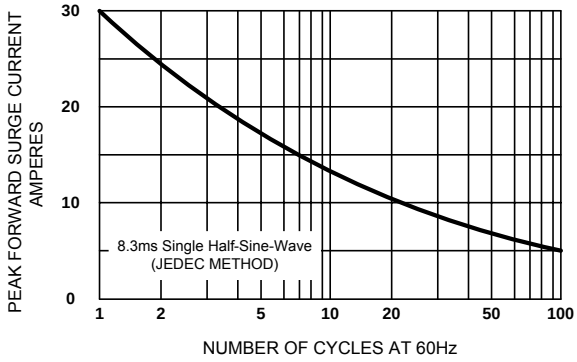


Figure 2. Maximum Non-repetitive Surge Current

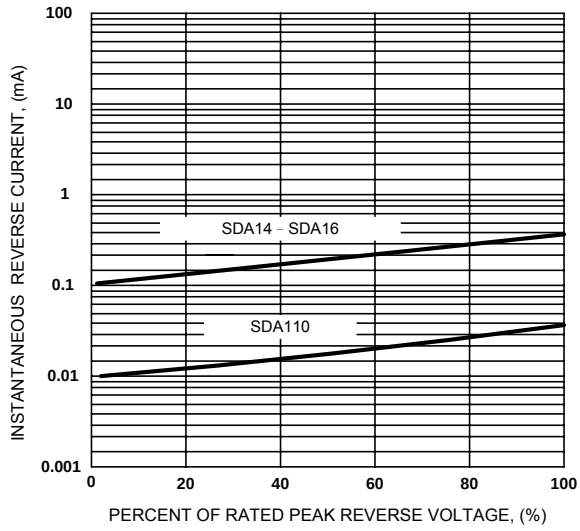


Figure 3. Typical Reverse Characteristics

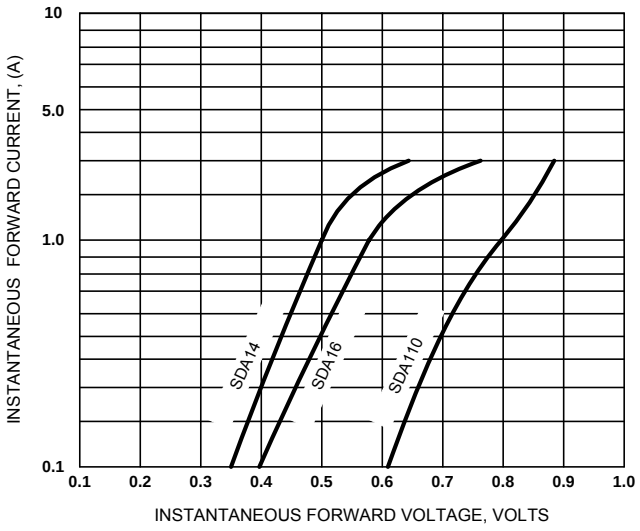


Figure 4. Typical Forward Characteristics

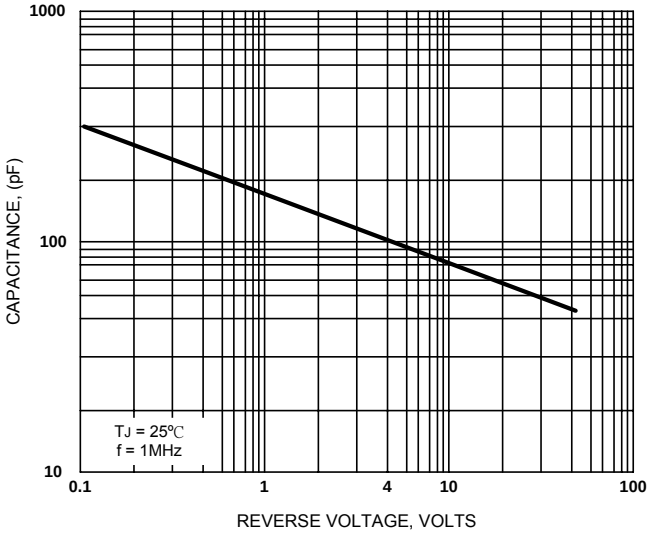
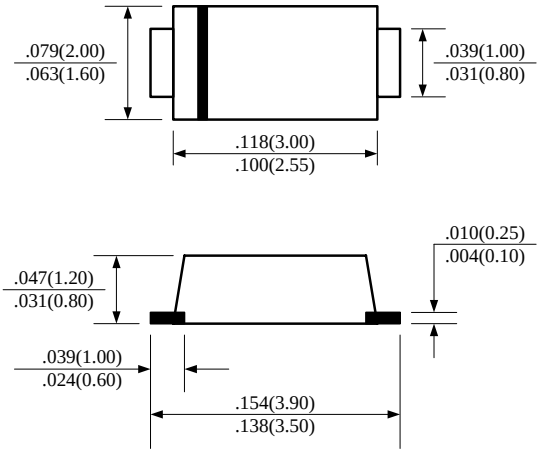


Figure 5. Typical Junction Capacitance

SDA14~SDA110

SOD-123



UNIT : inch(mm)

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