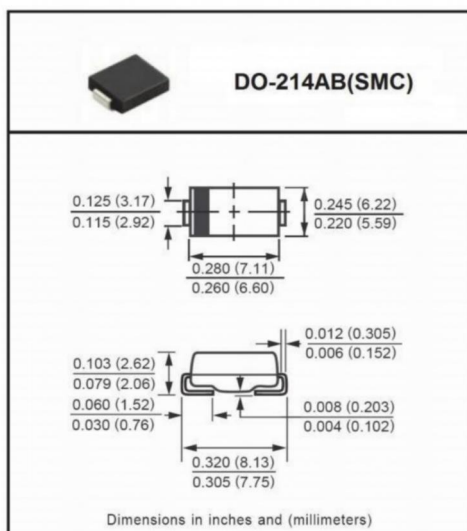


表面安装肖特基二极管
反向电压**40 --- 200 V**
正向电流**5.0A**

Surface Mount Schottky Barrier Rectifiers
Reverse Voltage 40 to 200 V
Forward Current 5.0A



特征 Features

- 大电流承受能力。High Current Capability
- 正向压降低。Low Forward Voltage Drop
- 高温焊接保证 260°C/10 秒 High temperature soldering guaranteed: 260°C/10seconds at terminals
- 引线 and 管体皆符合 RoHS 标准。
Lead and body according with RoHS standard
AEC-Q101 qualified

机械数据 Mechanical Data

- 封装: 塑料封装 Case: Molded plastic body
- 端子: 焊料被镀 Terminals: Solder plated
- 极性: 色环端为负极 Polarity: Color band denotes cathode end
- 安装位置: 任意 Mounting Position: Any

极限值和温度特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Maximum Ratings & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	SS52Q	SS54Q	SS55Q	SS56Q	SS58Q	SS510Q	SS515Q	SS520Q	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	20	40	50	60	80	100	150	200	V
Maximum RMS voltage	V_{RMS}	14	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V_{DC}	20	40	50	60	80	100	150	200	V
Maximum average forward rectified current	$I_{F(AV)}$	5.0								A
Peak forward surge current 8.3 ms single half sine-wave	I_{FSM}	150								A
Typical thermal resistance	$R_{\theta JA}$	55								°C/W
Operating junction and storage temperature range	T_J, T_{STG}	-50---+150								°C

电特性 $T_A = 25^\circ\text{C}$ 除非另有规定。

Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

	Symbols	SS52Q	SS54Q	SS55Q	SS56Q	SS58Q	SS510Q	SS515Q	SS520Q	Unit
Maximum forward voltage $I_F = 5.0A$	V_F	0.5	0.60	0.80	0.90					V
Maximum reverse current $T_A = 25^\circ\text{C}$	I_R	1								mA
Maximum reverse current $T_A = 100^\circ\text{C}$		50								
Type junction capacitance $V_R = 4.0V, f = 1MHz$	C_J	500				300				pF

特性曲线 CHARACTERISTIC CURVES

FIG. 1 – FORWARD CURRENT DERATING CURVE

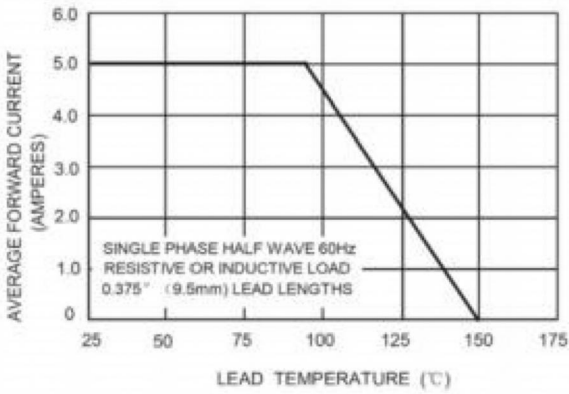


FIG. 2 – MAXIMUM NON-REPETITIVE SURGE CURRENT

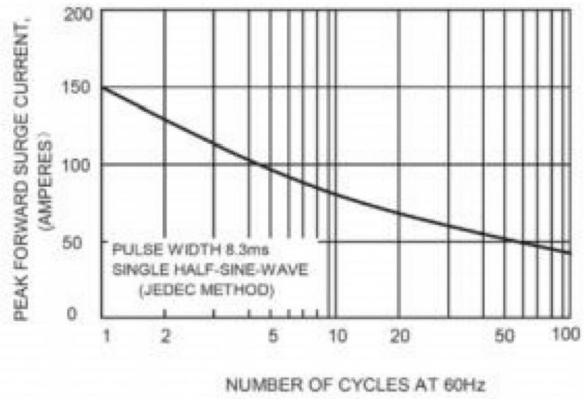


FIG. 3 – TYPICAL JUNCTION CAPACITANCE

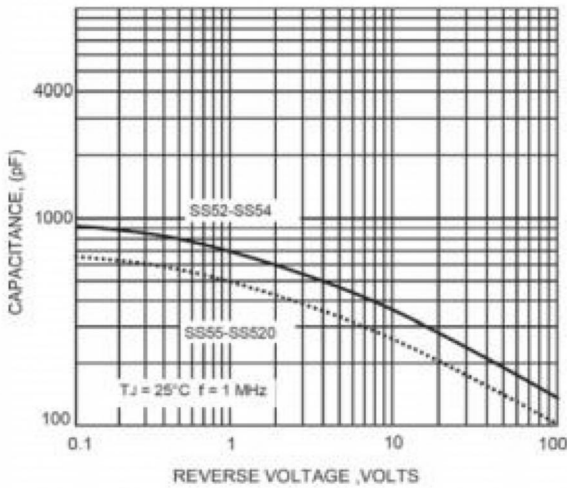


FIG. 4 – TYPICAL FORWARD CHARACTERISTICS

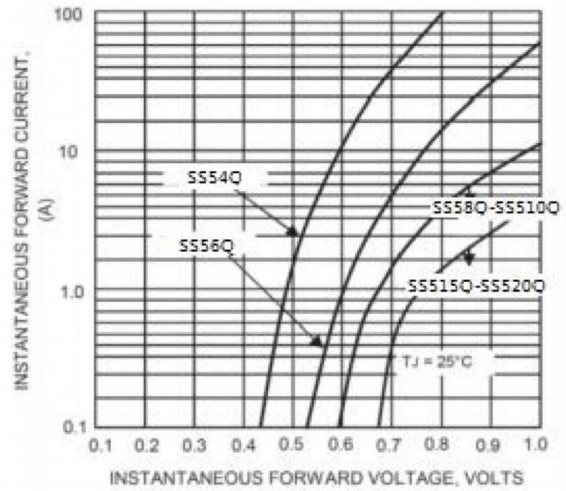
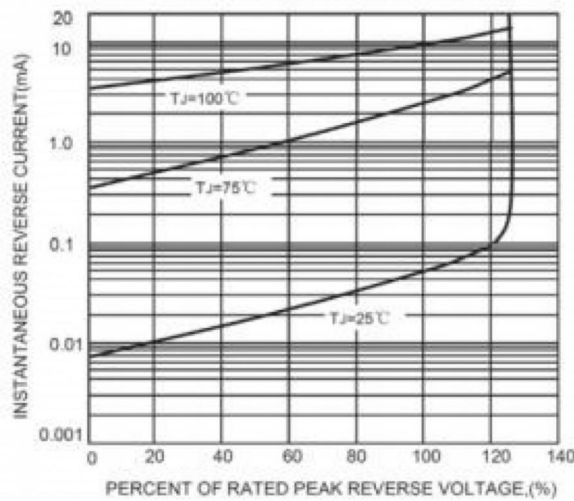
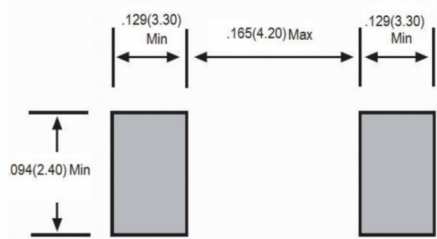


FIG. 5 – TYPICAL REVER CHARACTERISTICS



Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SS52Q-SS520Q	DO-214AB SMC	3000	Tape & Reel – 16mm/13" tape

Tape and Reel Specification

