



**TAYCHIPST**

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

SS22 THRU SS210  
20V-100V 2.0A

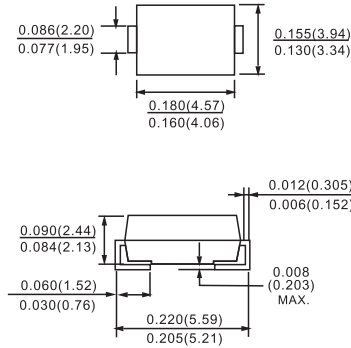
**Features**

- For surface mounted application
- Metal to silicon rectifier, majority carrier conduction
- Low forward voltage drop
- Easy pick and place
- High surge current capability
- Plastic material used carriers Underwriters
- Laboratory Classification 94V-0
- Epitaxial construction
- High temperature soldering:  
260°C / 10 seconds at terminals

**Mechanical Data**

- Case: Molded plastic
- Terminals: Solder plated
- Polarity: Indicated by cathode band
- Packaging: 12mm tape per EIA STD RS-481
- Weight: 0.093gram

DO-214AA(SMB)



**2.0 Ampere Schottky Barrier Rectifiers**

**Absolute Maximum Ratings\***

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

Symbol	Parameter	Value	Units
I <sub>O</sub>	Average Rectified Current .375" lead length @ T <sub>A</sub> = 75°C	2.0	A
i <sub>f(surge)</sub>	Peak Forward Surge Current 8.3 ms single half-sine-wave Superimposed on rated load (JEDEC method)	50	A
P <sub>D</sub>	Total Device Dissipation Derate above 25°C	1.3 13	W mW/°C
R <sub>θJA</sub>	Thermal Resistance, Junction to Ambient **	75	°C/W
T <sub>stg</sub>	Storage Temperature Range	-65 to +150	°C
T <sub>J</sub>	Operating Junction Temperature	-65 to +125	°C

\*These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

\*\* Device mounted on FR-4 PCB 0.013 mm.

**Electrical Characteristics**

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

Parameter	Device								Units
	22	23	24	25	26	28	29	210	
Peak Repetitive Reverse Voltage	20	30	40	50	60	80	90	100	V
Maximum RMS Voltage	14	21	28	35	42	56	64	80	V
DC Reverse Voltage (Rated V <sub>R</sub> )	20	30	40	50	60	80	90	100	V
Maximum Reverse Current T <sub>A</sub> = 25°C	0.4								mA
(Note 1) @ rated V <sub>R</sub> T <sub>A</sub> = 100°C	10								mA
Maximum Forward Voltage @ 2.0 A	500			700			850		mV

Note:Pulse Test:Pulse width≤300µs,Duty:cycle≤2.0%



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RATINGS AND CHARACTERISTIC CURVES (SS22 THRU SS210)

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

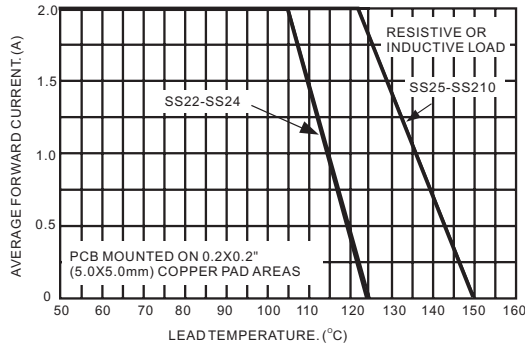


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

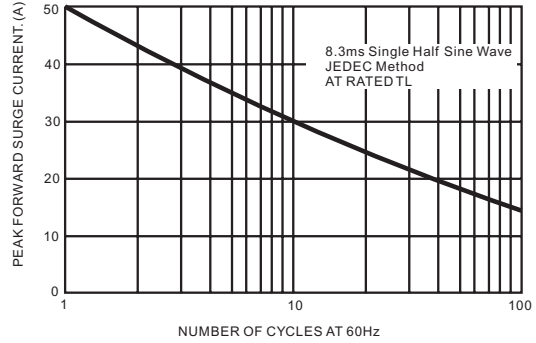


FIG.3- TYPICAL FORWARD CHARACTERISTICS

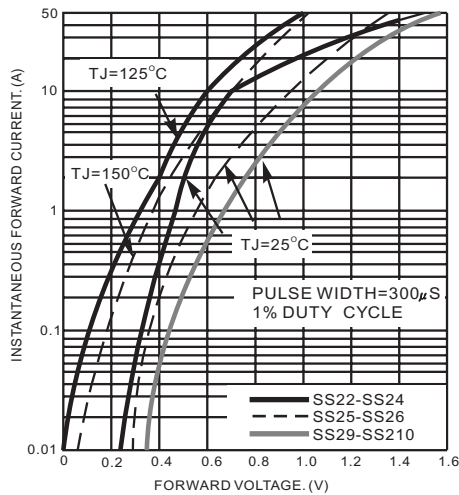


FIG.4- TYPICAL REVERSE CHARACTERISTICS

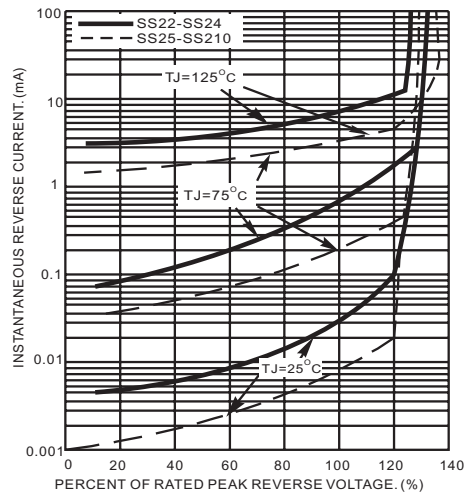


FIG.5- TYPICAL JUNCTION CAPACITANCE

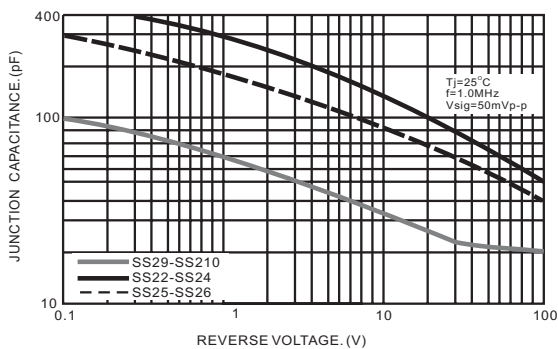


FIG.6- TYPICAL CAPACITANCE

