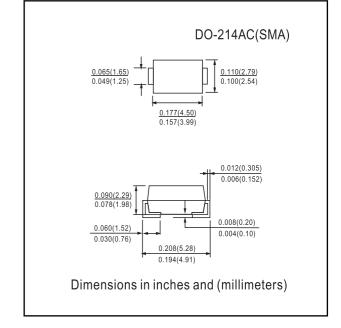
CONDUCTOR
SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S2A THRU S2M

50V-1000V 2.0A

FEATURES

- For surface mounted applications
- High temperature metallurgically bonded-no compression contacts as found in other diode-constructed rectifiers
- Glass passivated junction
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory
 Flammability Classification 94V-O
- Complete device submersible temperature of 260 ¢J for 10 seconds in solder bath



Mechanical Data

Case: JEDEC DO-214AC molded plastic

Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Indicated by cathode band

Standard packaging: 12mm tape (EIA-481)

Weight: 0.003 ounce, 0.093 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Characteristic		Symbol	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Current @T _L = 110°C		lo	2.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	60							А
Forward Voltage @I _F = 2.0A		VFM	1.10							V
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lгм				5.0 200				μA
Reverse Recovery Time (Note 1)		trr	2.5							μS
Typical Junction Capacitance (Note 2)		Cj	30							pF
Typical Thermal Resistance (Note 3)		R_{θ} JL	16							K/W
Operating and Storage Temperature Range		Тj, Tsтg	-55 to +150							°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

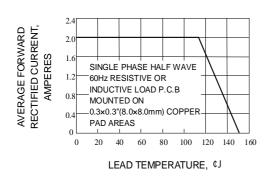
3. Mounted on P.C. Board with 8.0mm² land area.



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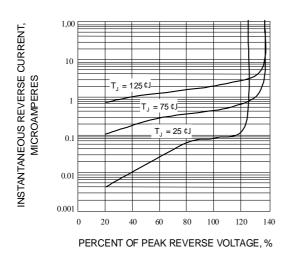


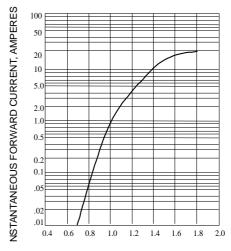
MARANDO SO SINGLE SINE-WAVE SINCLE SI

NUMBER OF CYCLES AT 60hz

Fig. 1-FORWARD CURRENT DERATING CURVE

Fig. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

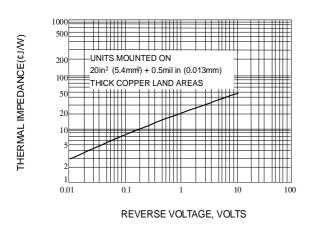




INSTANTANEOUS FORWARD VOLTAGE, VOLTS

Fig. 3-TYPICAL REVERSE CHARACTERISTICS

Fig. 4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



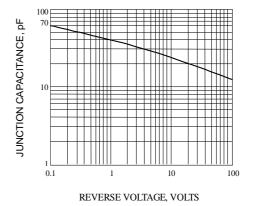


Fig. 5-TRANSIENT THERMAL IMPEDANCE

Fig. 6-TYPICAL JUNCTION CAPACITANCE