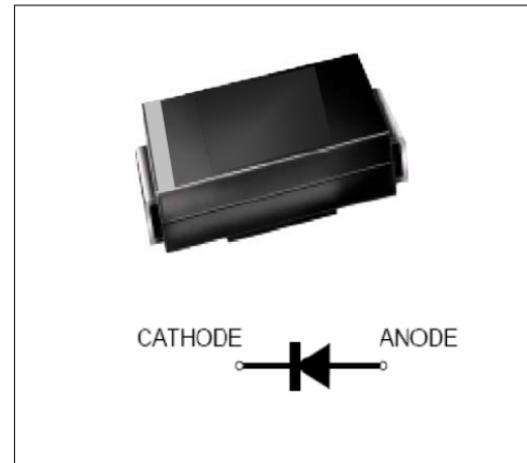


SM220A-H thru SM2100A-H

**Schottky Barrier Rectifiers
Reverse Voltage 20 to100V**

FEATURES

- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low power loss, high efficiency
- * For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- * Guardring for over voltage protection
- * High temperature soldering guaranteed: 260°C/10 seconds at terminals



Mechanical Data

Case: JEDEC DO-214AC,
molded plastic over glass die

Terminals: Plated axial leads, solderable per
MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0026 oz., 0.075 g

Handling precaution: None

We declare that the material of product is
Halogeen free (green epoxy compound)

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

Parameter Symbol	symbol	SM220A-H	SM230A-H	SM240A-H	SM250A-H	SM260A-H	SM280A-H	SM2100A-H	Unit
device marking code		S22	S23	S24	S25	S26	S28	S210	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage	V _{RMS}	14	21	28	35	42	56	70	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	100	V
Maximum average forward rectified current 0.375" (9.5mm) lead length (See fig. 1)	IF(AV)					2.0			A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}					60			A
Typical thermal resistance (Note 1)	R _{θJA}				50				°C/W
Operating junction and storage temperature range	T _J , T _{STG}					−40 to +150			°C

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

Parameter Symbol	symbol	SM220A-H	SM230A-H	SM240A-H	SM250A-H	SM260A-H	SM280A-H	SM2100A-H	Unit
Maximum instantaneous forward voltage at 2.0A	V _F		0.50		0.70		0.85		V
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	IR				0.5 10.0				mA
Typical junction capacitance at 4.0V, 1MHz	C _J				110				PF

NOTES:

- Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C.B. mounted

SM220A-H thru SM2100A-H

2. Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

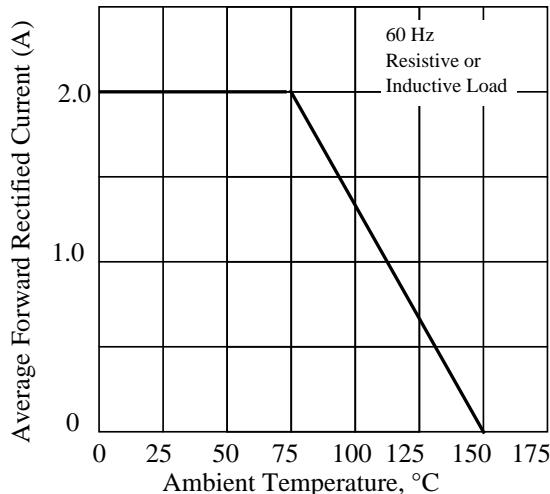


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

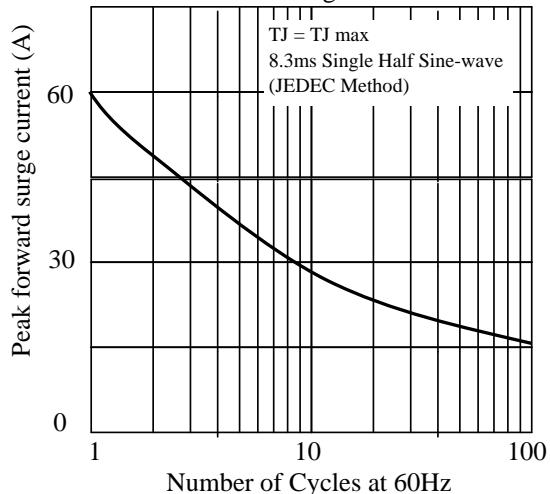


Fig. 3. - Typical Instantaneous Forward Characteristics

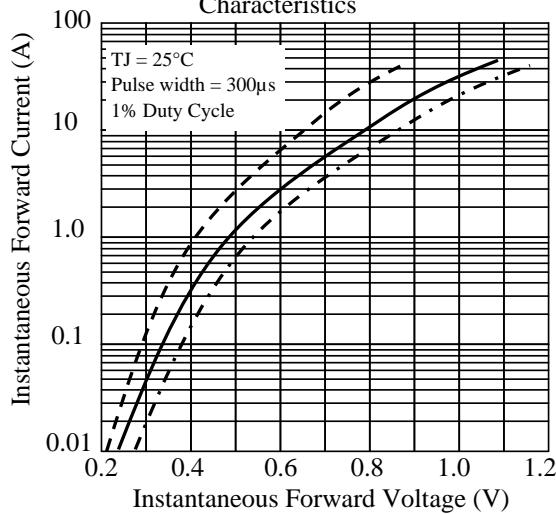


Fig. 4. - Typical Reverse Characteristics

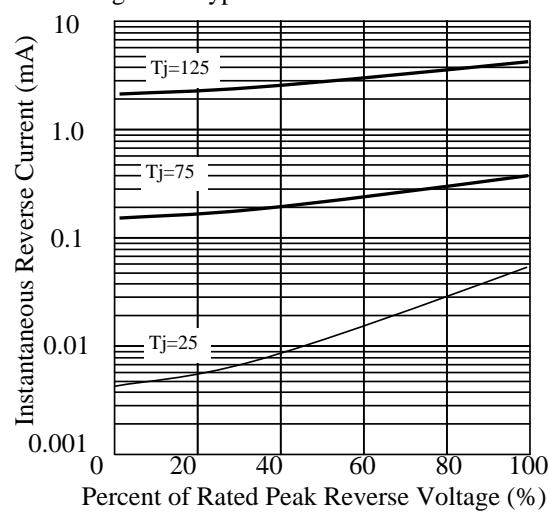


Fig. 5. - typical transient thermal impedance

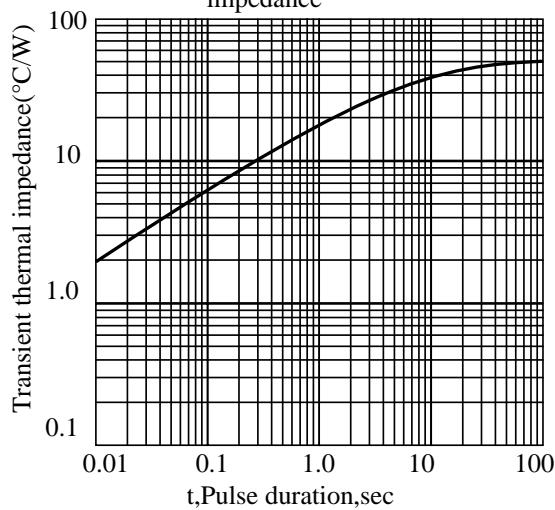
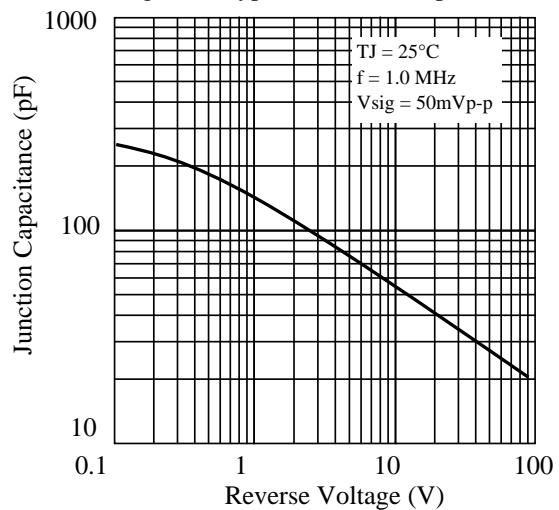


Fig. 6. - Typical Junction Capacitance



SM220A-H thru SM2100A-H**3. dimension:**

Package outline					
Dimensions					
	inches		mm		Note: DO-214AC molded plastic case The marking band indicates the cathode
A	Min.	0.086	Max.	0.110	
B	Min.	0.051	Max.	0.067	
C	Min.	0.185	Max.	0.209	
D	Min.	0.067	Max.	0.100	
E	Min.	0.035	Max.	0.059	
F	Min.	0.035	Max.	0.059	



LESHAN RADIO COMPANY, LTD.

SM220A-H thru SM2100A-H

4. Update Record

版次	更新记录	更新作者	更新日期
1	第一版	周杰	2010-3-23
2	第二版	周杰	2010-9-23