

SM220A thru SM2100A

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

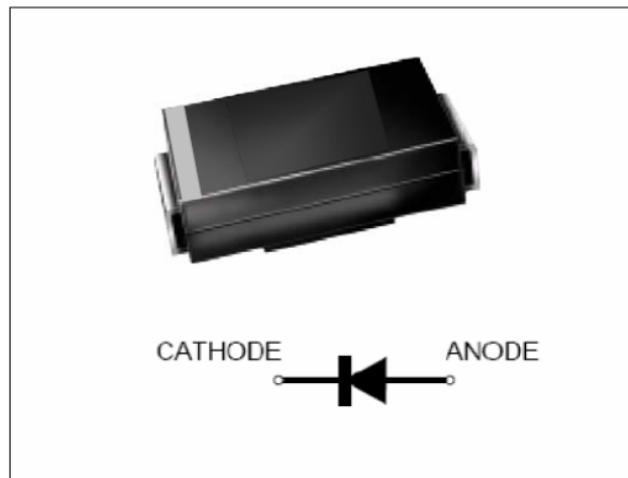
Terminals: Plated axial leads, solderable per
MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0023 oz., 0.065 g

Handling precaution: None



We declare that the material of product compliance
with ROHS requirements

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

Parameter Symbol	symbol	SM220A	SM230A	SM240A	SM250A	SM260A	SM280A	SM2100A	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 RSM voltage	V _{RSM}	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 (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}	150							°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.

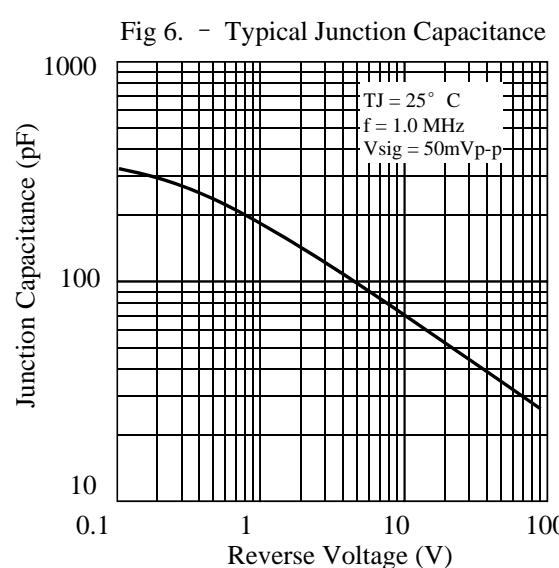
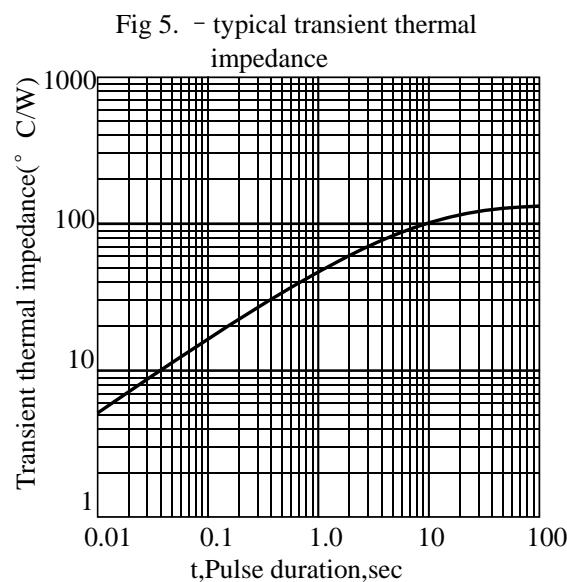
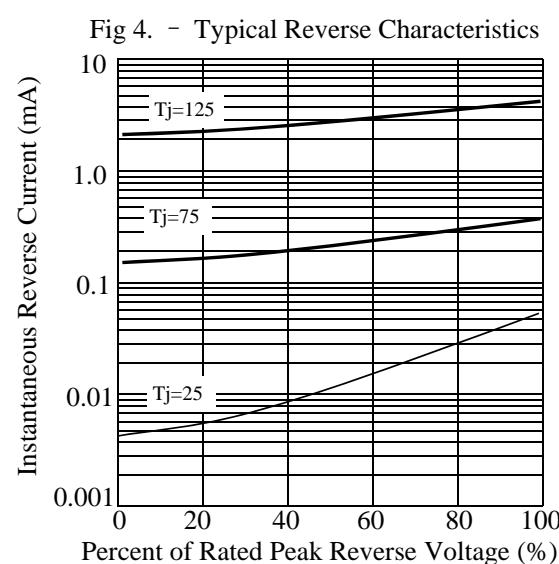
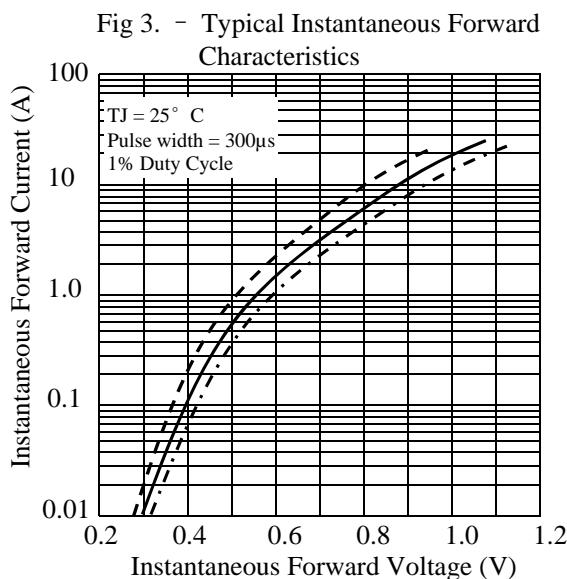
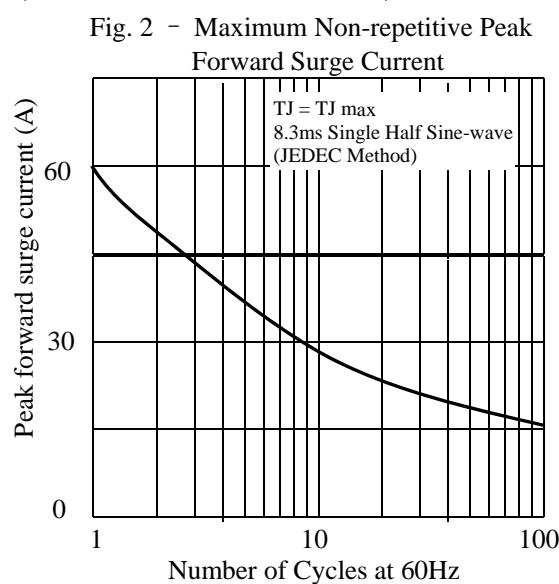
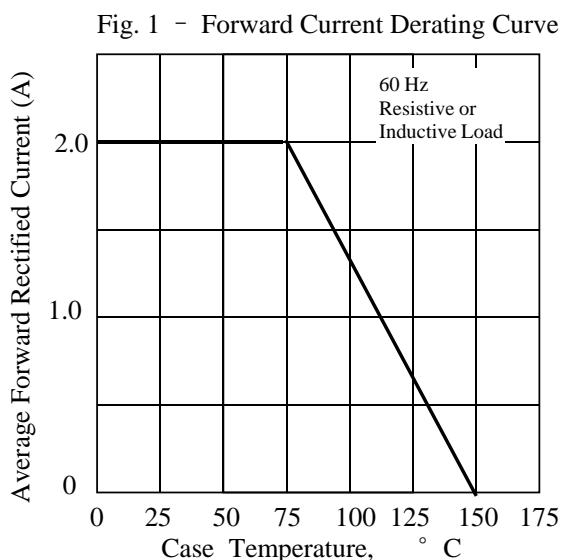
Parameter Symbol	symbol	SM220A	SM230A	SM240A	SM250A	SM260A	SM280A	SM2100A	Unit
Maximum instantaneous forward voltage at 2.0A	V _F	0.55		0.70		0.85		V	
Maximum DC reverse current TA = 25°C at rated DC blocking voltage TA = 100°C	I _R	0.5		10.0				mA	
Typical junction capacitance at 4.0V, 1MHz	C _J	110							PF

NOTES:

1. 8.0mm² (.013mm thick) land areas

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2.Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)





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3. dimension:

Package outline

Dimensions				
	inches		mm	
	Min.	Max.	Min.	Max.
A	0.086	0.110	2.2	2.8
B	0.051	0.067	1.3	1.7
C	0.185	0.209	4.7	5.3
D	0.067	0.100	1.7	2.55
E	0.035	0.059	0.9	1.5
F	0.035	0.059	0.9	1.5

Note:
DO-214AC
molded plastic case
The marking band indicates the cathode



Mounting Pad Layout
---SMA

