

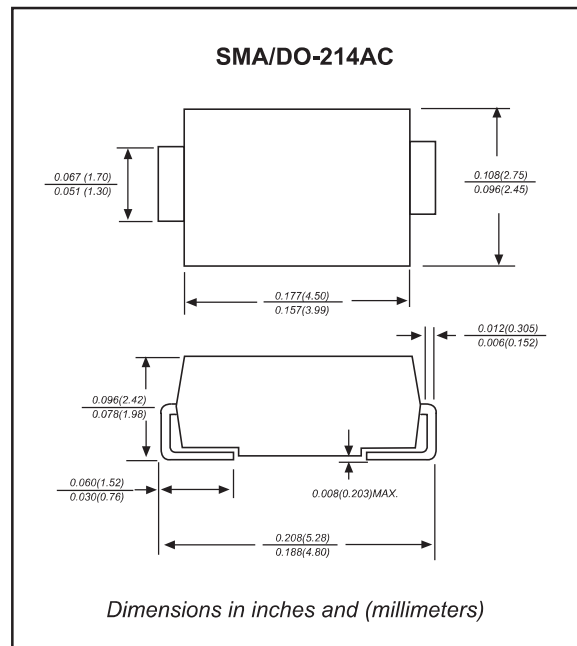
Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction, majority carrier conduction
- ◆ Low power loss, high efficiency
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed: 250°C/10 seconds at terminals
- ◆ Compliant to RoHS Directive 2011/65/EU
- ◆ Compliant to Halogen-free
- ◆ Suffix "-Q1" for AEC-Q101

Mechanical data

- ◆ **Case:** JEDEC DO-214AC molded plastic body
- ◆ **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- ◆ **Polarity:** Color band denotes cathode end
- ◆ **Mounting Position:** Any

Package outline



Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

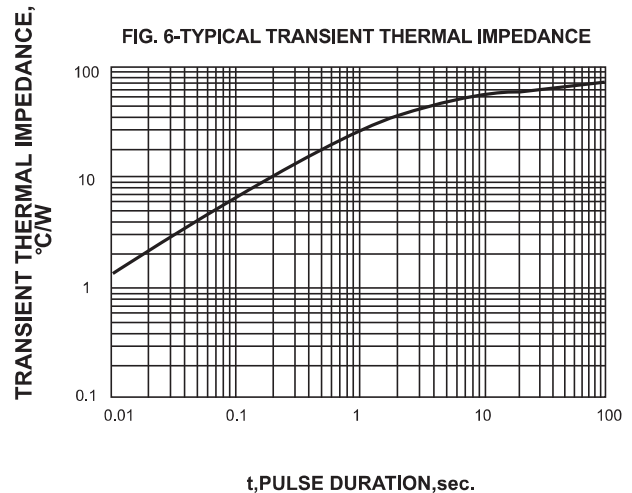
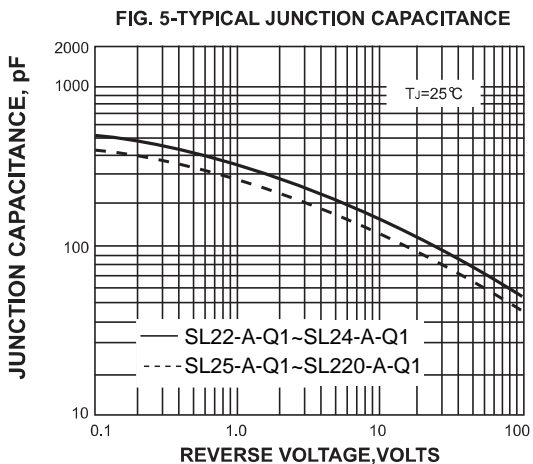
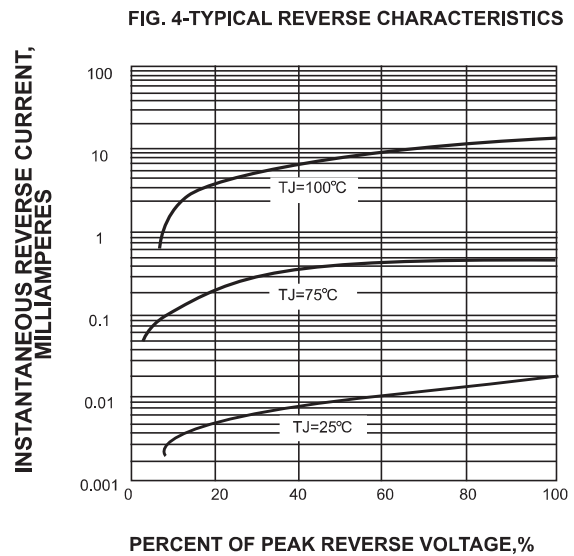
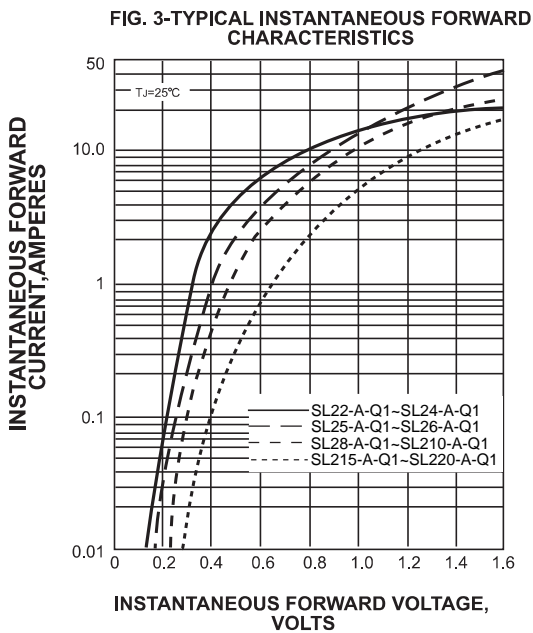
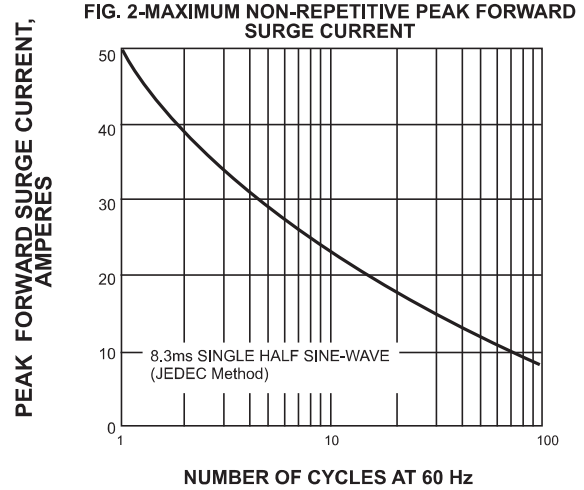
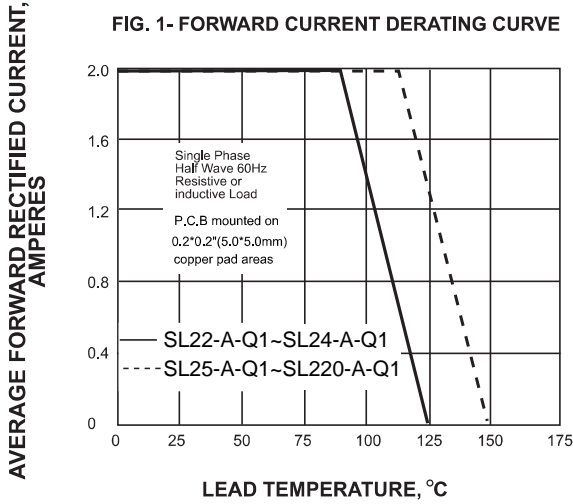
PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I _O			2.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC method)	I _{FSM}			50	A
Reverse current	V _R = V _{RRM} T _A = 25°C	I _R			1.0	mA
	V _R = V _{RRM} T _A = 100°C				20	
Thermal resistance	Junction to ambient NOTE 1	R _{θJA}		75		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C _J		220		pF
Storage temperature		T _{STG}	-65		+150	°C

Note: 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



SYMBOLS	V _{RRM} ^{*1} (V)	V _{RMS} ^{*2} (V)	V _R ^{*3} (V)	V _F ^{*4} (V)	Operating temperature T _J (°C)
SL22-A-Q1	20	14	20	0.45	-55 to +125
SL23-A-Q1	30	21	30		
SL24-A-Q1	40	28	40		
SL25-A-Q1	50	35	50	0.55	-55 to +150
SL26-A-Q1	60	42	60		
SL28-A-Q1	80	56	80	0.75	
SL210-A-Q1	100	70	100		
SL215-A-Q1	150	105	150	0.85	
SL220-A-Q1	200	140	200		

- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@I_F=2.0A

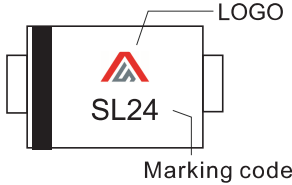
Rating and characteristic curves



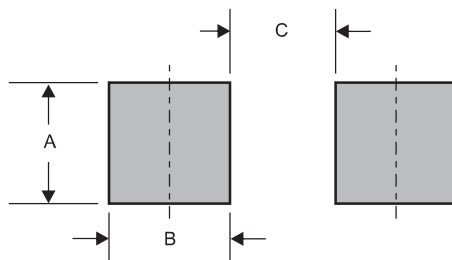
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code	Example
SL22-A-Q1	SL22	
SL23-A-Q1	SL23	
SL24-A-Q1	SL24	
SL25-A-Q1	SL25	
SL26-A-Q1	SL26	
SL28-A-Q1	SL28	
SL210-A-Q1	SL210	
SL215-A-Q1	SL215	
SL220-A-Q1	SL220	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SMA	0.110 (2.80)	0.063 (1.60)	0.087 (2.20)