

SD22FL-SD220FL

Surface Mount Schottky Barrier Rectifiers

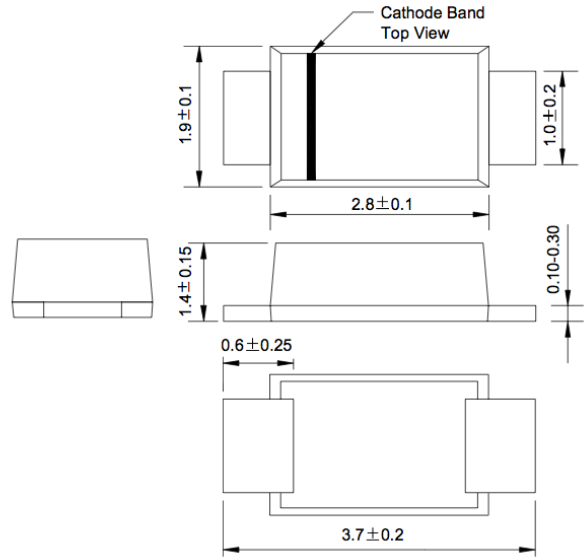
REVERSE VOLTAGE: 20 - 200 V

Features

- Guarding protection
- Low forward voltage
- Reverse energy tested
- High current capability
- Extremely low thermal resistance
- RoHS compliant package

Mechanical Data

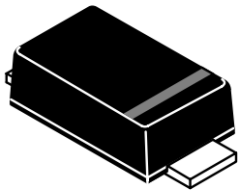
- Case: SOD-123FL Molded plastic
- Epoxy: UL94V-O rate flame retardant
- Lead: Lead Formed for Surface Mount
- Polarity: Color band denotes cathode end
- Mounting position: Any



Packing & Order Information

3,000/Reel

Graphic symbol



RoHS
COMPLIANT



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings (Tc=25°C unless otherwise noted)									
ITEM			Conditions	Rating					Unit
				SD22FL	SD24FL	SD26FL	SD210FL	SD220FL	
Repetitive peak reverse voltage	VRRM		20	40	60	100	200		V
average forward current	IF(AV)		2						A
Peak forward surge current	IFSM	8.3ms single half Sine-wave	50						A
Operating junction temperature range	Tj		-55 to +125		-55 to +150				°C
Storage temperature range	TSTG		-55 to +150						°C

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Maximum Ratings (Tc=25°C unless otherwise noted)

ITEM		Conditions	Typ	Min	Typ	Max	Unit
Forward voltage(NOTE1)	VF	I _F = 1.0 A	SD22FL	--	0.41	--	V
		I _F = 2.0 A	SD24FL	--	0.49	0.50	V
		I _F = 1.0 A	SD26FL	--	0.50	--	V
		I _F = 2.0 A		--	0.60	0.70	V
		I _F = 1.0 A	SD210FL	--	0.62	--	V
		I _F = 2.0 A		--	0.75	0.85	V
		I _F = 1.0 A	SD220FL	--	0.75	--	V
		I _F = 2.0 A		--	0.85	0.94	V
Operating junction temperature range	IRRM	VR=Max. VRRM , Ta = 25°C		--	0.025	0.20	mA
Storage temperature range	Cj	VR = 4 V , f = 1.0MHz		--	115	--	pF
Thermal resistance	R _{th(JA)}	Junction to ambient(NOTE2)		--	75	--	°C/W
	R _{th(JL)}	Junction to lead(NOTE2)		--	17	--	°C/W

Notes:

Pulse test: Pulse width 300us, duty cycle 1%

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■ RATINGS AND CHARACTERISTIC CURVES

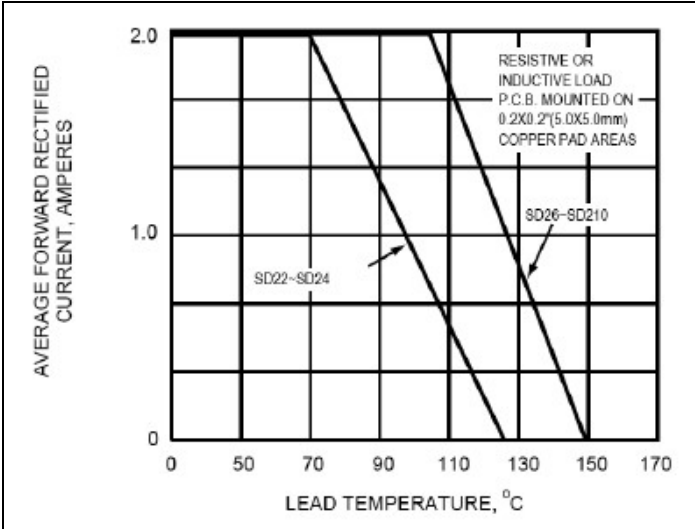


FIG. 1- FORWARD DERATING CURVE

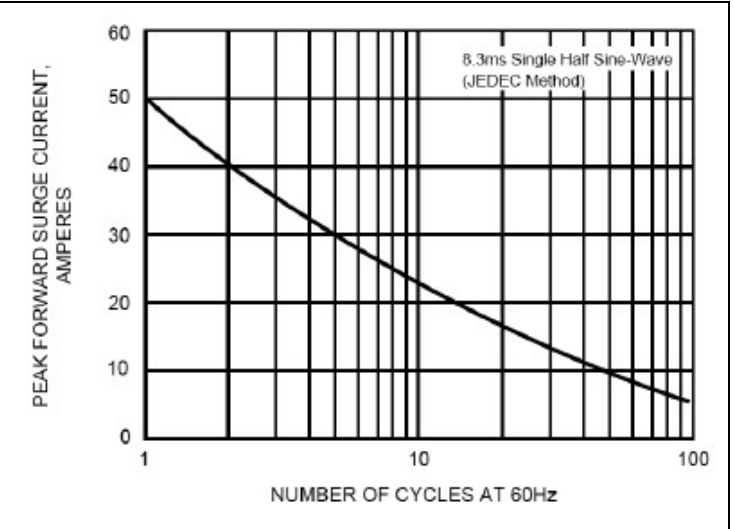


FIG. 2- PEAK FORWARD SURGE CURRENT

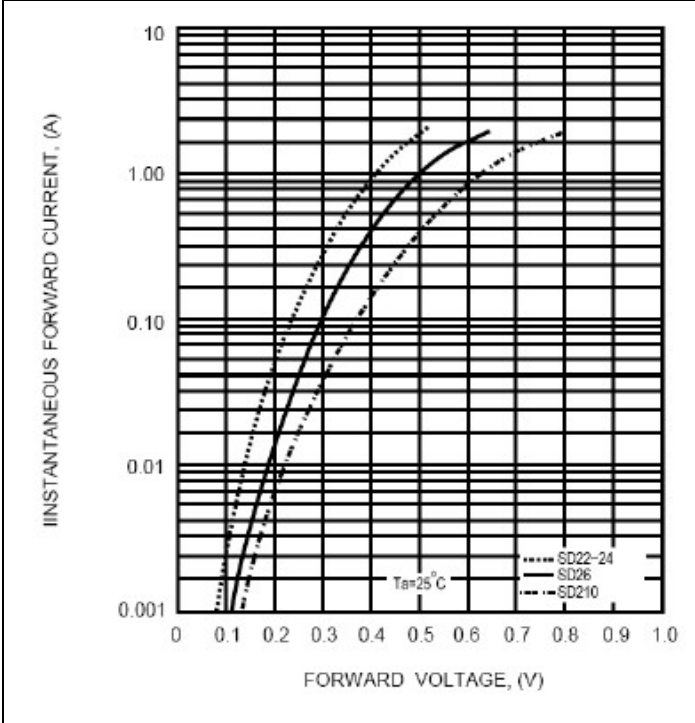


FIG. 3- TYPICAL FORWARD CHARACTERISTICS

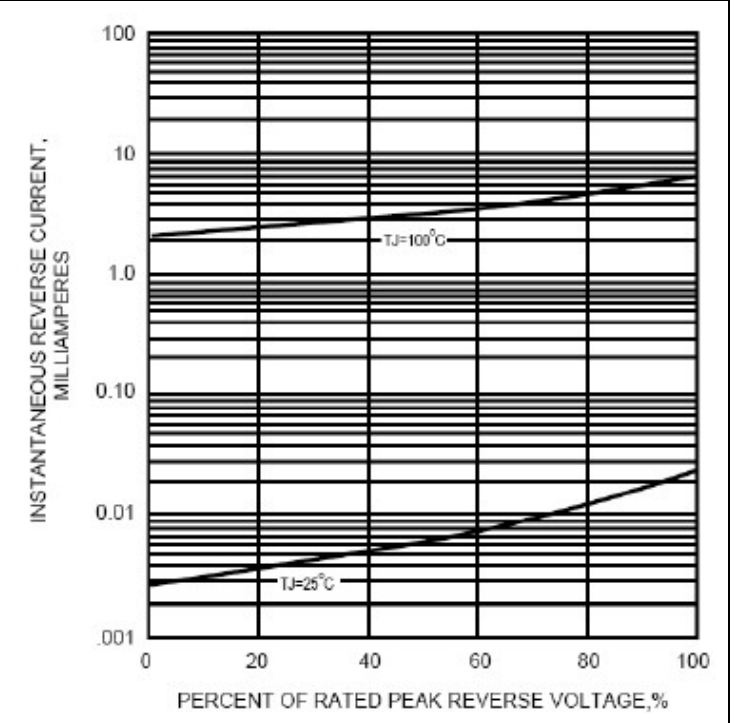


FIG. 4- TYPICAL REVERSE CHARACTERISTICS

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