

DSU22 THRU DSU220

2.0A Low VF Surface Mount Schottky Barrier Rectifiers -20V-200V

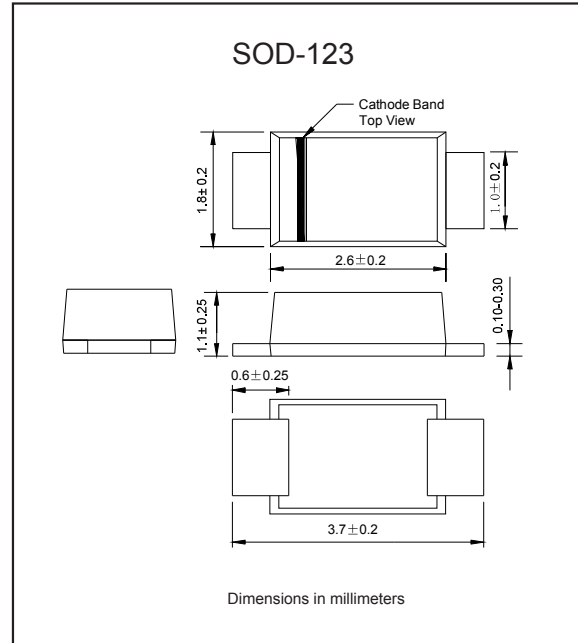
Features

- ▶ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ▶ Metal silicon junction, majority carrier conduction
- ▶ Low power loss, high efficiency
- ▶ High forward surge current capability
- ▶ High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension
- ▶ Compliant to RoHS Directive 2011/65/EU
- ▶ Compliant to Halogen-free

Mechanical data

- ▶ **Case**: JEDEC SOD-123 molded plastic body
- ▶ **Terminals**: Plated axial leads, solderable per MIL-STD-750, Method 2026
- ▶ **Polarity**: Color band denotes cathode end
- ▶ **Mounting Position**: Any
- ▶ **Weight**: 0.0007 ounce, 0.02 grams

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 methode)	I _{FSM}			40	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}		92		°C/W
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C _J		130		pF
Storage temperature		T _{STG}	-65		+150	°C

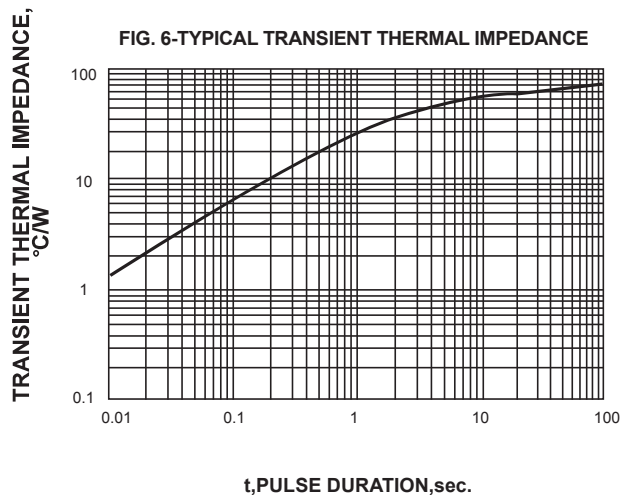
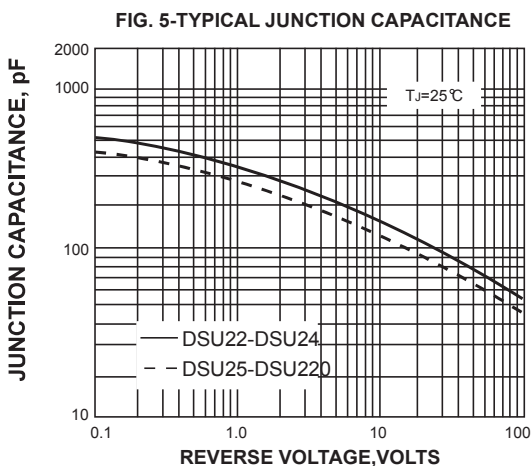
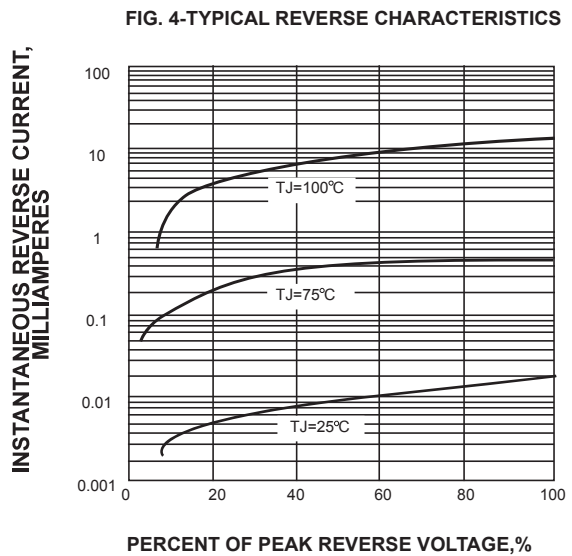
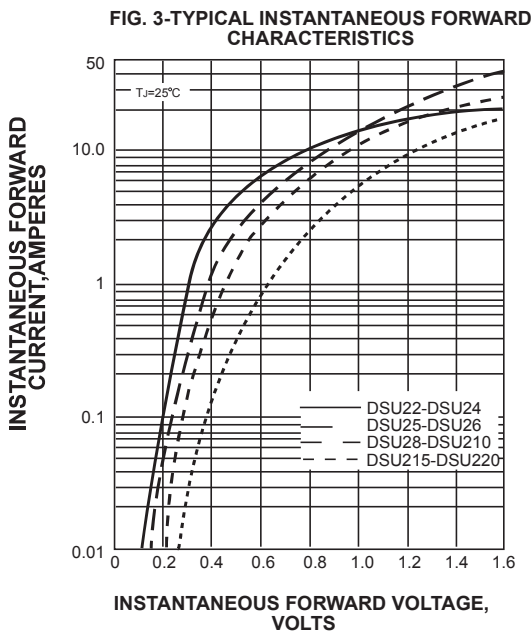
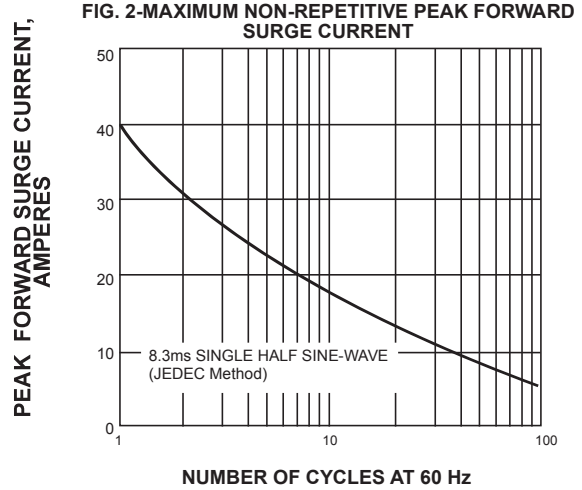
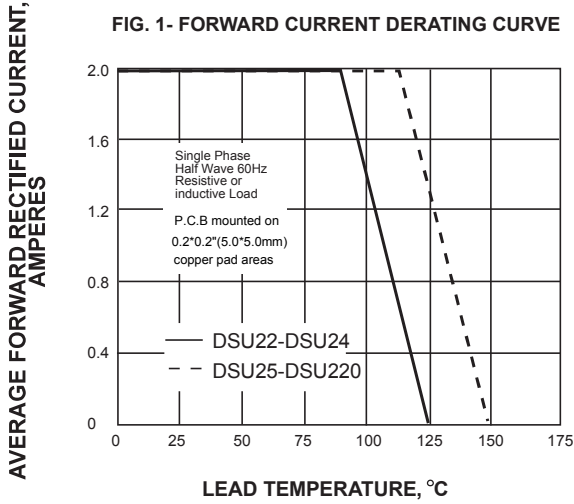
Note: 1.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

SYMBOLS	V _{RRM} *1 (V)	V _{RMS} *2 (V)	V _R *3 (V)	V _F *4 (V)	Operating temperature T _J , (°C)
DSU22	20	14	20	0.40	-55 to +125
DSU23	30	21	30		
DSU24	40	28	40		
DSU25	50	35	50	0.50	-55 to +150
DSU26	60	42	60		
DSU28	80	56	80	0.60	
DSU210	100	70	100		
DSU215	150	105	150	0.80	
DSU220	200	140	200		

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



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Rating and characteristic curves



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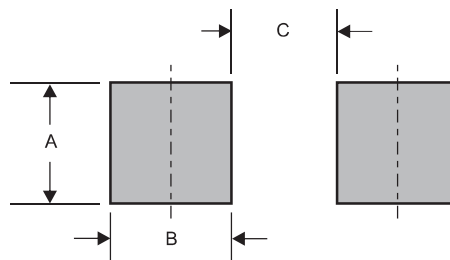
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
DSU22	22U
DSU23	23U
DSU24	24U
DSU25	25U
DSU26	26U
DSU28	28U
DSU210	20U
DSU215	215U
DSU220	220U

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)