Formosa MS

DSK22 THRU DSK220

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

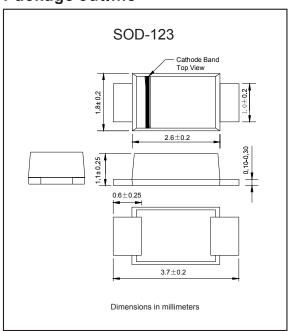
Features

- ◆ 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		MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2				2.0	Α
Forward surge current	8.3ms single half sine-wave (JEDEC methode)				40	А
Reverse current	$V_R = V_{RRM} T_A = 25^{\circ}C$,		0.5	^	
	$V_R = V_{RRM} T_A = 100^{\circ}C$	R	R		10	mA
Thermal resistance	Junction to ambient NOTE 1	$R_{\scriptscriptstyle ext{ hetaJA}}$		88		°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)
DSK22	20	14	20		_
DSK23	30	21	30	0.55	-55 to +125
DSK24	40	28	40		
DSK25	50	35	50	0.70	
DSK26	60	42	60	0.70	
DSK28	80	56	80	0.85	-55 to +150
DSK210	100	70	100	0.65	
DSK215	150	105	150	0.92	
DSK220	200	140	200	0.92	

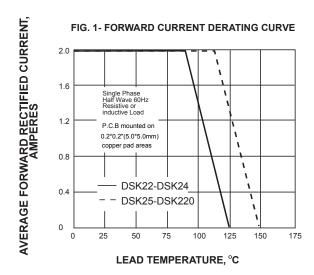
- *1 Repetitive peak reverse voltage
- *2 RMS voltage
- *3 Continuous reverse voltage
- *4 Maximum forward voltage@I_F=2.0A

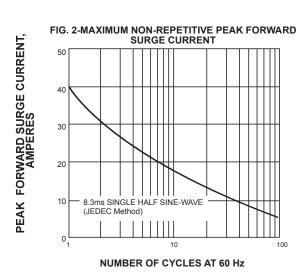
Document ID	Issued Date	Revised Date	Revision	Page.
FM-3060006	2003/03/08	2012/05/16	D	3

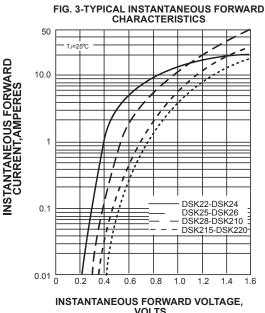
Formosa MS

DSK22 THRU DSK220

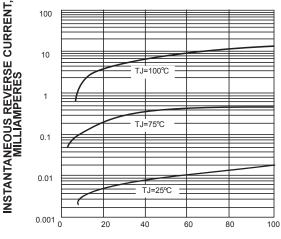
Rating and characteristic curves (DSK22 THRU DSK220)

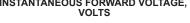




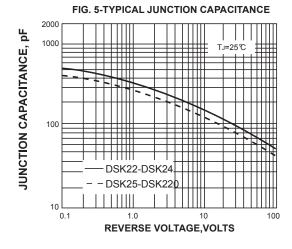


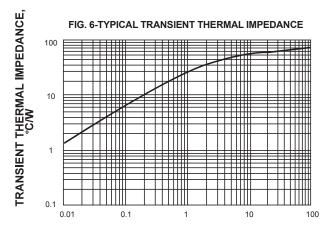












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Document ID	Issued Date	Revised Date	Revision	Page.
FM-3060006	2003/03/08	2012/05/16	D	3

Formosa MS

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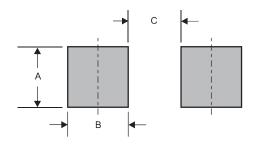
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode	1 2	1 2

Marking

Type number	Marking code
DSK22	22
DSK23	23
DSK24	24
DSK25	25
DSK26	26
DSK28	28
DSK210	20
DSK215	215
DSK220	220

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	А	В	С
SOD-123	0.075 (1.90)	0.055 (1.40)	0.075 (1.90)



Document ID	Issued Date	Revised Date	Revision	Page.
FM-3060006	2003/03/08	2012/05/16	D	3