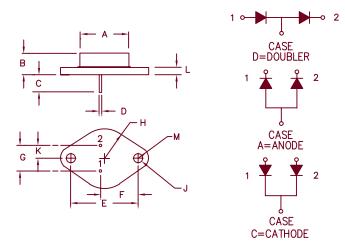
Schottky Rectifier SD 241, SD 24145



Dim.	Inches	Millimeter			
	Minimum	Maximum	Minimum	Maximum	Notes
Α		.875		22.23	Dia.
В	.250	.450	6.35	11.43	
С	.435		11.05		
D	.038	.043	.97	1.09	Dia.
Ε	1.177	1.197	29.90	30.40	
F	.655	.675	16.64	17.15	
G	.420	.440	10.67	11.18	
Н		.525		13.34	Rad.
J	.151	.161	3.84	4.09	Dia.
K	.205	.225	5.21	5.72	
L		.135		3.43	
М		.188		4.78	Rad.

TO-204AA (TO-3)

Microsemi	Working Peak	Repetitive Peak
Catalog Number	Reverse Voltage	Reverse Voltage
SD241*	35V	35V
SD24145*	45V	45V
	*ADD D, C, or A	

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- VRRM 35 & 45V
- 30 Amperes
- Reverse Energy Tested

Electrical Characteristics Per Leg

 $T_C = 148^{\circ}C$, Square wave, $R_{\theta JC} = 1.4^{\circ}C/W$ F(AV) 30 Amps Average forward current (standard) F(AV) 30 Amps $T_C = 132$ °C, Square wave, $R_{\theta JC} = 2.2$ °C/W Average forward current (reverse) 8.3 ms, half sine TJ = 175°C f = 1 KHz, 25°C, 1 µsec Square wave IFM = 30A: TJ = 175°C* IFM = 30A: TJ = 25°C* VRRM, TJ = 125°C* VRRM, TJ = 25°C VR = 5.0V, TJ = 25°C FSM 600 Amps Maximum surge current IR(OV) 2 Amps Max repetitive peak reverse current V FM .57 Volts Max peak forward voltage Max peak forward voltage Ÿ FM .70 Volts Max peak reverse current I RM 25 mA I RM Max peak reverse current 1.5 mA Typical junction capacitance per leg CJ 1350 pF

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

Thermal and Mechanical Characteristics

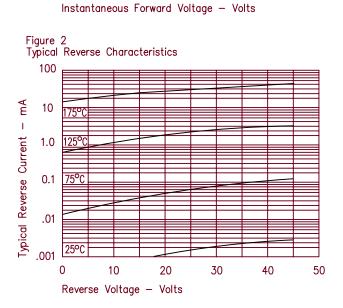
TSTG -65°C to 175°C Storage temp range Operating junction temp range ΤJ -65°C to 175°C 1.4°C/W Junction to case 2.2°C/W Junction to case R OJC Maximum thermal resistance (standard polarity) R OJC Maximum thermal resistance (reverse polarity) 0.5°C/W Case to sink Typical thermal resistance (greased) Recs Weight 1.0 ounces (28 grams) typical

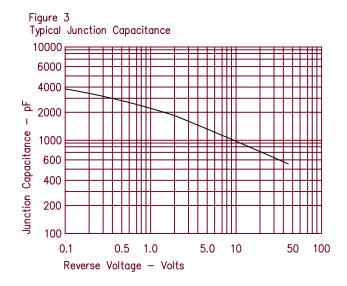


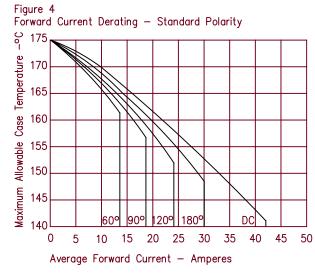
6 Lake Street Lawrence, MA 01841 PH: (978) 620–2600 FAX: (978) 689–0803 www.microsemi.com

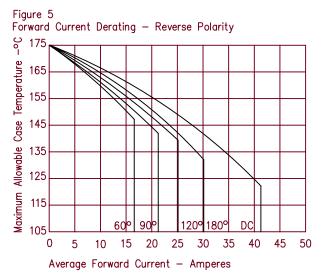
SD241, SD24145

Figure 1 Typical Forward Characteristics 1000 800 600 400 200 100 80 60 40 Instantaneous Forward Current - Amperes 20 10 8.0 6.0 4.0 2.0 1.0 0 .2 .4 .6 8. 1.0 1.2 1.4









SD241, SD24145

Figure 6 Maximum Forward Power Dissipation — Standard Polarity

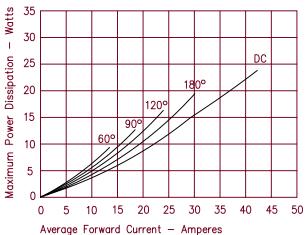
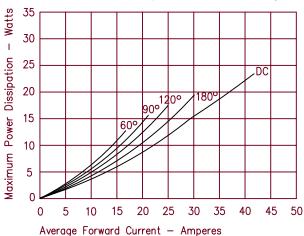


Figure 7 Maximum Forward Power Dissipation — Reverse Polarity



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SK32A-LTP SK34B-TP SS3003CH-TL-E GA01SHT18 CRS10I30A(TE85L,QM MA4E2501L-1290 MBRB30H30CT-1G SB007-03C-TB-E SK32A-TP SK33B-TP SK38B-TP NRVBM120LT1G NTE505 NTSB30U100CT-1G SS15E-TP VS-6CWQ10FNHM3 ACDBA1100LR-HF ACDBA1200-HF ACDBA2100-HF ACDBA3100-HF CDBQC0530L-HF ACDBA340-HF ACDBA260LR-HF

ACDBA1100-HF SK310B-TP MA4E2502L-1246 MA4E2502H-1246 NRVBM120ET1G NSR01L30MXT5G NTE573 NTE6081 SB560 PMAD1108-LF