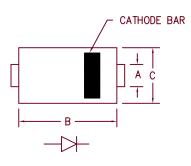
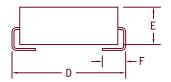
Ultra Fast Recovery Rectifiers UFS160J — UFS180J



Dim. Inches			Millimeter		
	Minimum	Maximum	Minimum	Maximum	Notes
A B C D E F	.073 .160 .130 .205 .075	.087 .180 .155 .220 .130	1.85 4.06 3.30 5.21 1.91 .760	2.21 4.57 3.94 5.59 3.30 1.52	



DO-214BA Package

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
UFS160J	ER1J MURS160T3	600V	600V
UFS170J		700V	700V
UFS180J	ER1K	800V	800V

- Ultra Fast Recovery
- 175°C Junction Temperature
- VRRM 600 to 800 Volts
- 1 Amp Current Rating
- ^t RR 60nS Max.

Electrical Characteristics

Average forward current Maximum surge current Max peak forward voltage Max peak forward voltage Max reverse recovery time Max peak reverse current Typical junction capacitance I F(AV) 1.0 Amps I FSM 25 Amps V FM .89 Volts V FM 1.2 Volts t RR 60 nS I RM 20 µA CJ 5.5 pF TL = 140°C, Square wave, R 0JL = 15°C/W 8.3ms, half sine, TJ = 175°C IFM = 0.1A: TJ = 25°C* IFM = 1.0A: TJ = 25°C* 1/2A, 1A, 1/4A, TJ = 25°C VRRM, TJ = 25°C VR = 10V, TJ = 25°C

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

Thermal and Mechanical Characteristics

Storage temperature range Operating junction temp range Maximum thermal resistance Weight TSTG TJ R_{OJL} -55°C to 175°C -55°C to 175°C

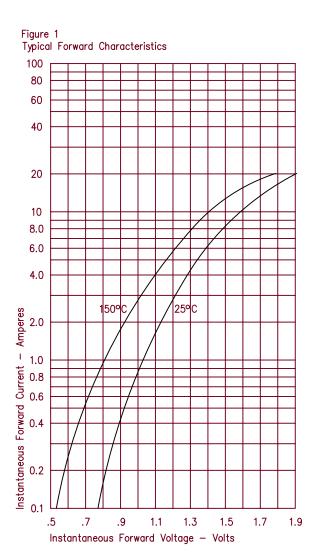
15°C/W Junction to lead .0047 ounces (.013 grams) typical

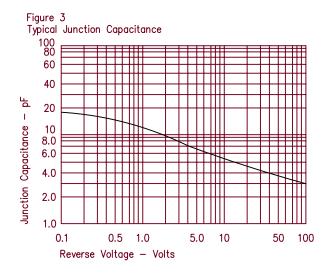


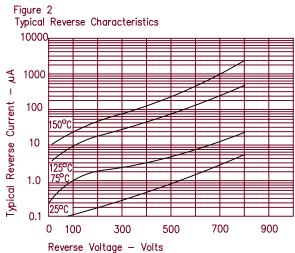
8700 East Thomas Road, P.O. Box 1390 Scottsdale, AZ 85252 PH: (480) 941–6300

FAX: (480) 947-1503 www.microsemi.com 05-08-07 Rev. 3

UFS160J — UFS180J







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