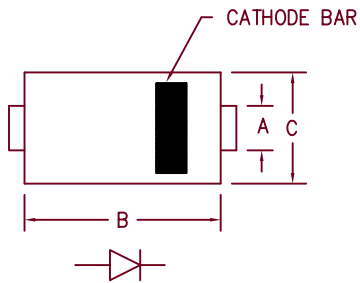
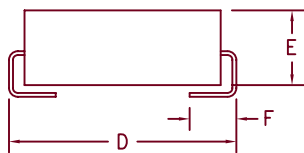


Ultra Fast Recovery Rectifiers

UFS160J — UFS180J



Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	.073	.087	1.85	2.21	
B	.160	.180	4.06	4.57	
C	.130	.155	3.30	3.94	
D	.205	.220	5.21	5.59	
E	.075	.130	1.91	3.30	
F	.030	.060	.760	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
- [†]RR 60nS Max.

Electrical Characteristics			
Average forward current	I _{F(AV)} 1.0 Amps	T _L = 140°C, Square wave, R _{θJL} = 15°C/W	
Maximum surge current	I _{FSM} 25 Amps	8.3ms, half sine, T _J = 175°C	
Max peak forward voltage	V _{FM} .89 Volts	I _{FM} = 0.1A; T _J = 25°C*	
Max peak forward voltage	V _{FM} 1.2 Volts	I _{FM} = 1.0A; T _J = 25°C*	
Max reverse recovery time	[†] RR 60 nS	1/2A, 1A, 1/4A, T _J = 25°C	
Max peak reverse current	I _{RM} 20 μA	V _R = 10V, T _J = 25°C	
Typical junction capacitance	C _J 5.5 pF		

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

Thermal and Mechanical Characteristics		
Storage temperature range	T _{STG}	-55°C to 175°C
Operating junction temp range	T _J	-55°C to 175°C
Maximum thermal resistance	R _{θJL}	15°C/W Junction to lead
Weight		.0047 ounces (.013 grams) typical



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 www.microsemi.com

05-08-07 Rev. 3

UFS160J — UFS180J

Figure 1
Typical Forward Characteristics

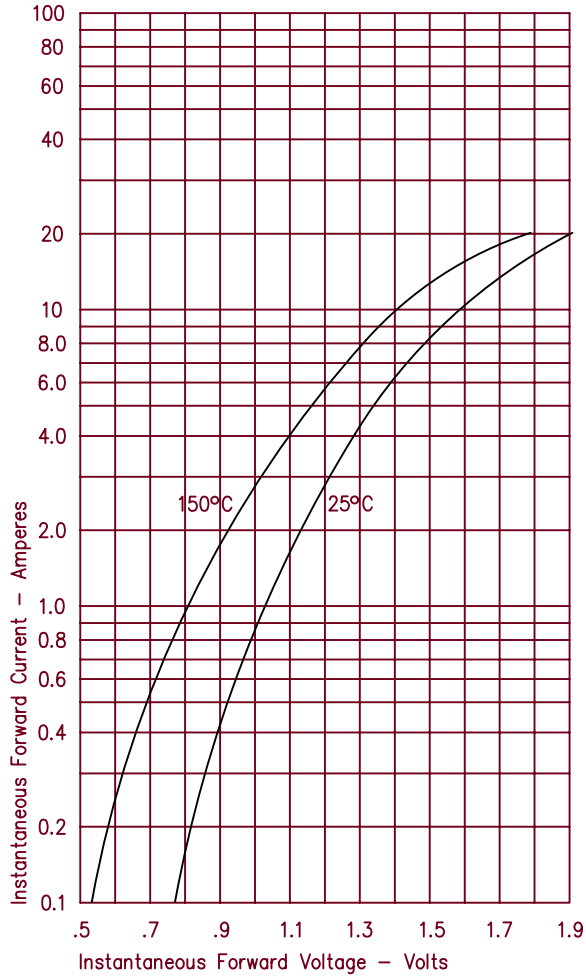


Figure 3
Typical Junction Capacitance

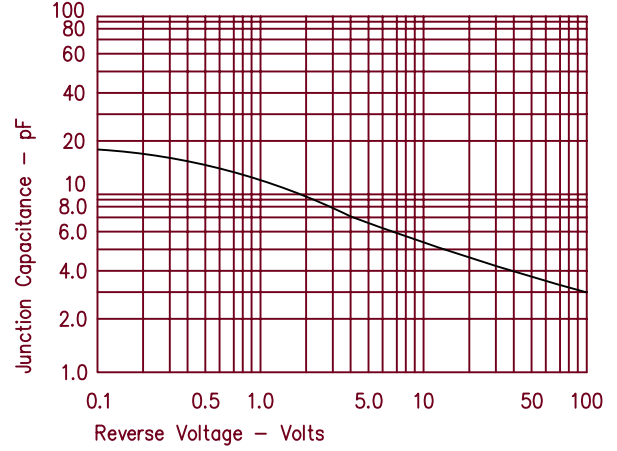
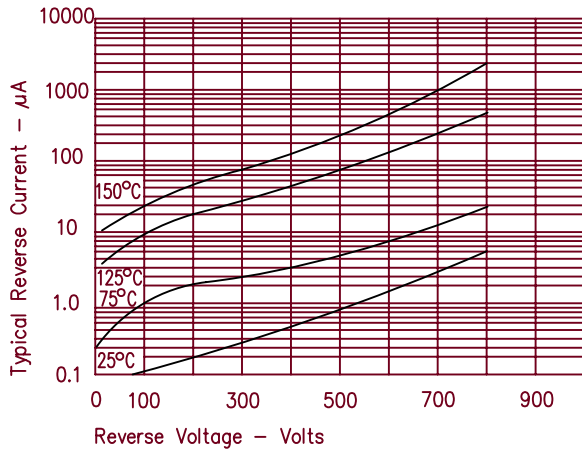


Figure 2
Typical Reverse Characteristics



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[RRE02VS6SGTR](#) [067907F](#) [MS306](#) [70HF40](#) [T85HFL60S02](#) [US2JFL-TP](#) [A1N5404G-G](#) [CRS04\(T5L,TEMQ\)](#) [ACGRA4007-HF](#)
[ACGRB207-HF](#) [CLH03\(TE16L,Q\)](#) [ACGRC307-HF](#) [ACEFC304-HF](#) [NTE6356](#) [NTE6359](#) [NTE6002](#) [NTE6023](#) [NTE6039](#) [NTE6077](#)
[85HFR60](#) [40HFR60](#) [70HF120](#) [85HFR80](#) [D126A45C](#) [SCF7500](#) [D251N08B](#) [SCHJ22.5K](#) [SM100](#) [SCPA2](#) [SCH10000](#) [SDHD5K](#) [VS-](#)
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