

MSKSEMI

SEMICONDUCTOR



ESD



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PLED

Product data sheet

FEATURES

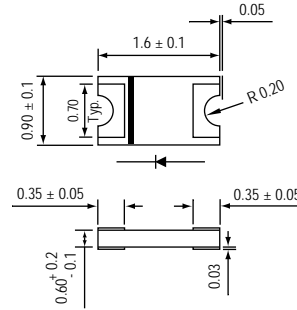
- * Halogen-free type
- * Lead free product , compliance to RoHs
- * Lead less chip form , no lead damage
- * Lead-free solder joint , no wire bond & lead frame
- * Low power loss , High efficiency
- * High current capability , low VF
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

APPLICATION

- * Switching mode power supply applications
- * Portable equipment battery applications
- * High frequency rectification
- * DC / DC Converter
- * Telecommunication

OUTLINE DIMENSIONS

Unit : mm



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			USCD032H	USCD034H	
Repetitive peak reverse voltage	VRRM		20	40	V
Average forward current	IF(AV)		300		mA
Peak forward surge current	IFSM	8.3ms single half sine-wave	2.0		A
Junction temperature	Tj		125		°C
Operating temperature range	Topr		-40 to +125		
Storage temperature range	TSTG		-40 to +125		

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 100mA	-	0.38	-	V
		IF = 200mA	-	0.43	-	
		IF = 300mA	-	0.47	0.50	
Repetitive peak reverse current	IRRM	VR = @ 10V , Ta = 25 °C	-	1	20	uA
		VR = Max. VRRM , Ta = 25 °C	-	8	50	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	35	-	pF
Thermal resistance	Rth(JA)	Junction to ambient	-	160	-	°C/W
	Rth(JL)	Junction to lead	-	110	-	°C/W

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

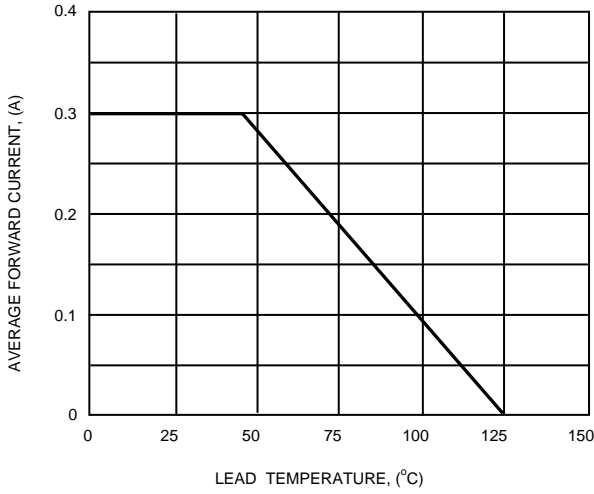


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

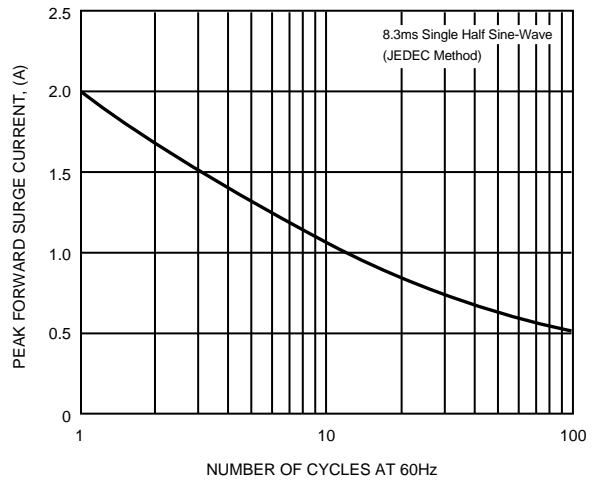


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

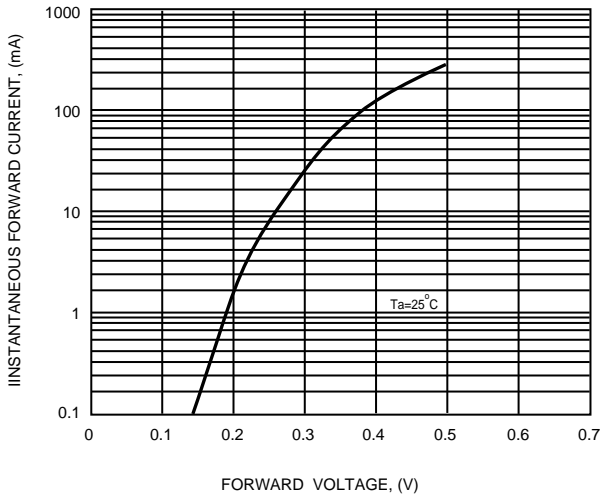


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

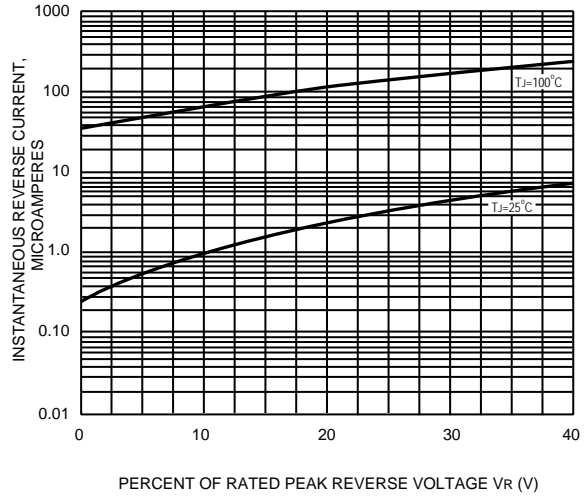
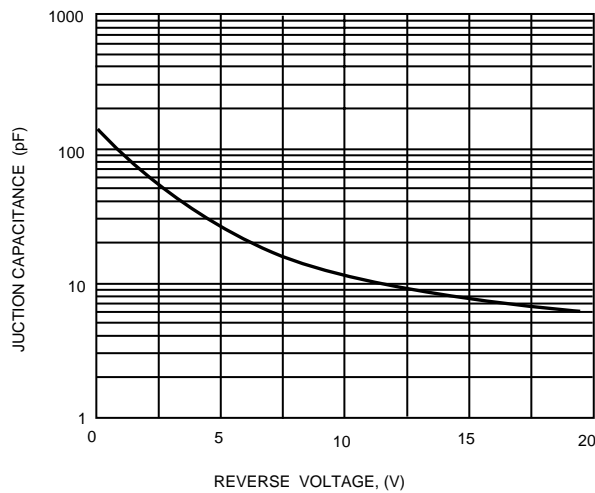


FIG. 5 - TYPICAL JUNCTION CAPACITANCE



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