

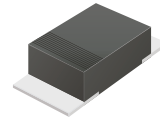
CDBMHT340-HF Thru. CDBMHT3100-HF

Reverse Voltage: 40 to 100 Volts

Forward Current: 3.0 Amp

RoHS Device

Halogen Free

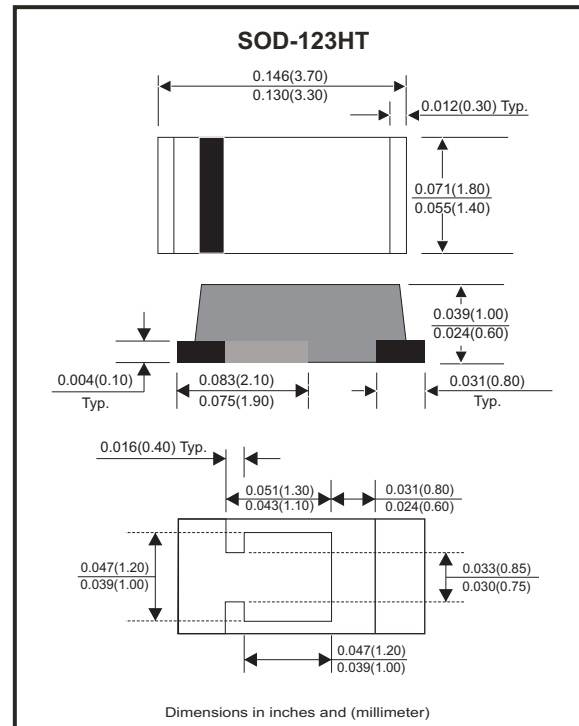


Features

- Excellent power dissipation offers better reverse leakage current and thermal resistance.
- Low power loss, high efficiency.
- High current capability, low forward voltage drop.
- High surge capability.
- Guard ring for overvoltage protection.
- Ultra high-speed switching.
- Silicon epitaxial planar chip, metal silicon junction.

Mechanical data

- Epoxy: UL94-V0 rated flame retardant.
- Case: Molded plastic, SOD-123HT
- Terminals: Solderable per MIL-STD-750, method 2026.
- Polarity: Indicated by cathode band.
- Mounting Position : Any.
- Weight: 0.011 grams approx.



Circuit diagram



Maximum Ratings (at TA=25°C unless otherwise noted)

Parameter	Symbol	CDBMHT340-HF	CDBMHT360-HF	CDBMHT3100-HF	Unit
Repetitive peak reverse voltage	V _{RRM}	40	60	100	V
Continuous reverse voltage	V _R	40	60	100	V
RMS voltage	V _{RMS}	28	42	70	V
Forward voltage @ I _F =3A	V _F	0.55	0.70	0.85	V
Operating temperature	T _J	-55 to +125	-55 to +150		°C
Storage temperature range	T _{STG}	-65 to +175			°C

Electrical Characteristics (at TA=25°C unless otherwise noted)

Parameter	Conditions	Symbol	MIN.	TYP.	MAX.	Unit
Forward rectified current	see Fig.1	I_o			3	A
Forward surge current	8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}			50	A
Reverse Current	$V_R = V_{RRM}$ $T_J=25^{\circ}C$	I_R			0.2	mA
	$V_R = V_{RRM}$ $T_J=100^{\circ}C$	I_R			10	mA
Thermal Resistance	Junction to ambient	$R_{\theta JA}$		70		°C/W
	Junction to case	$R_{\theta JC}$		35		
	Junction to lead	$R_{\theta JL}$		30		
Diode Junction capacitance	f=1MHz and applied 4V DC reverse Voltage	C_J		160		pF

Rating and Characteristic Curves (CDBMHT340-HF Thru. CDBMHT3100-HF)

Fig.1 - Typical Forward Current Derating Curve

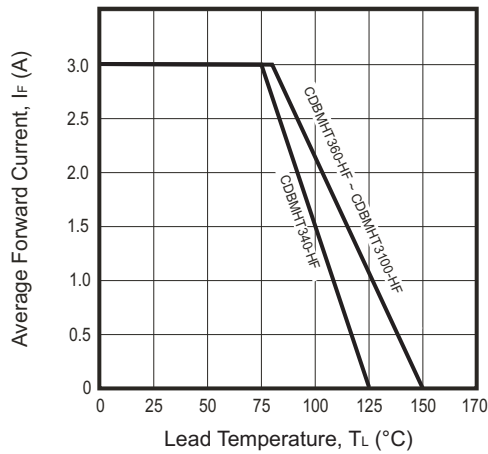


Fig.2 - Typical Forward Characteristics

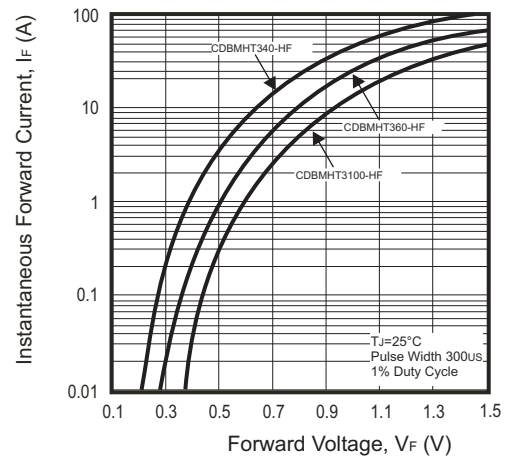


Fig.3 - Maximum Non-Repetitive Forward Surge Current

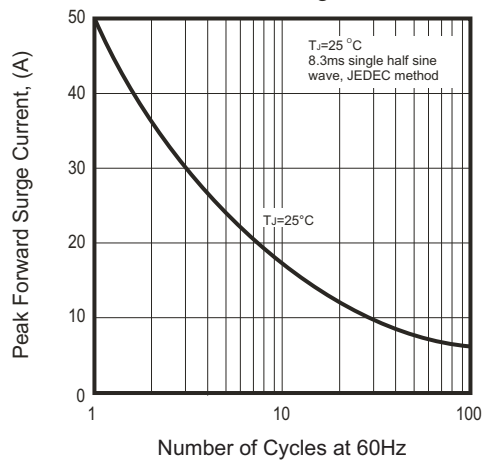


Fig.4 - Typical Junction Capacitance

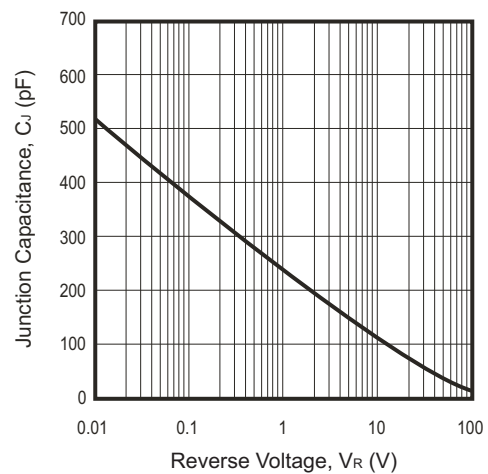
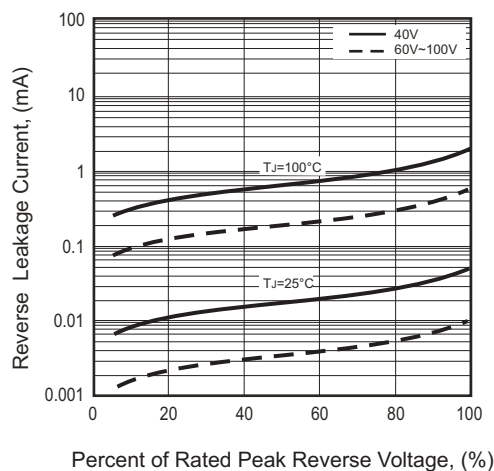
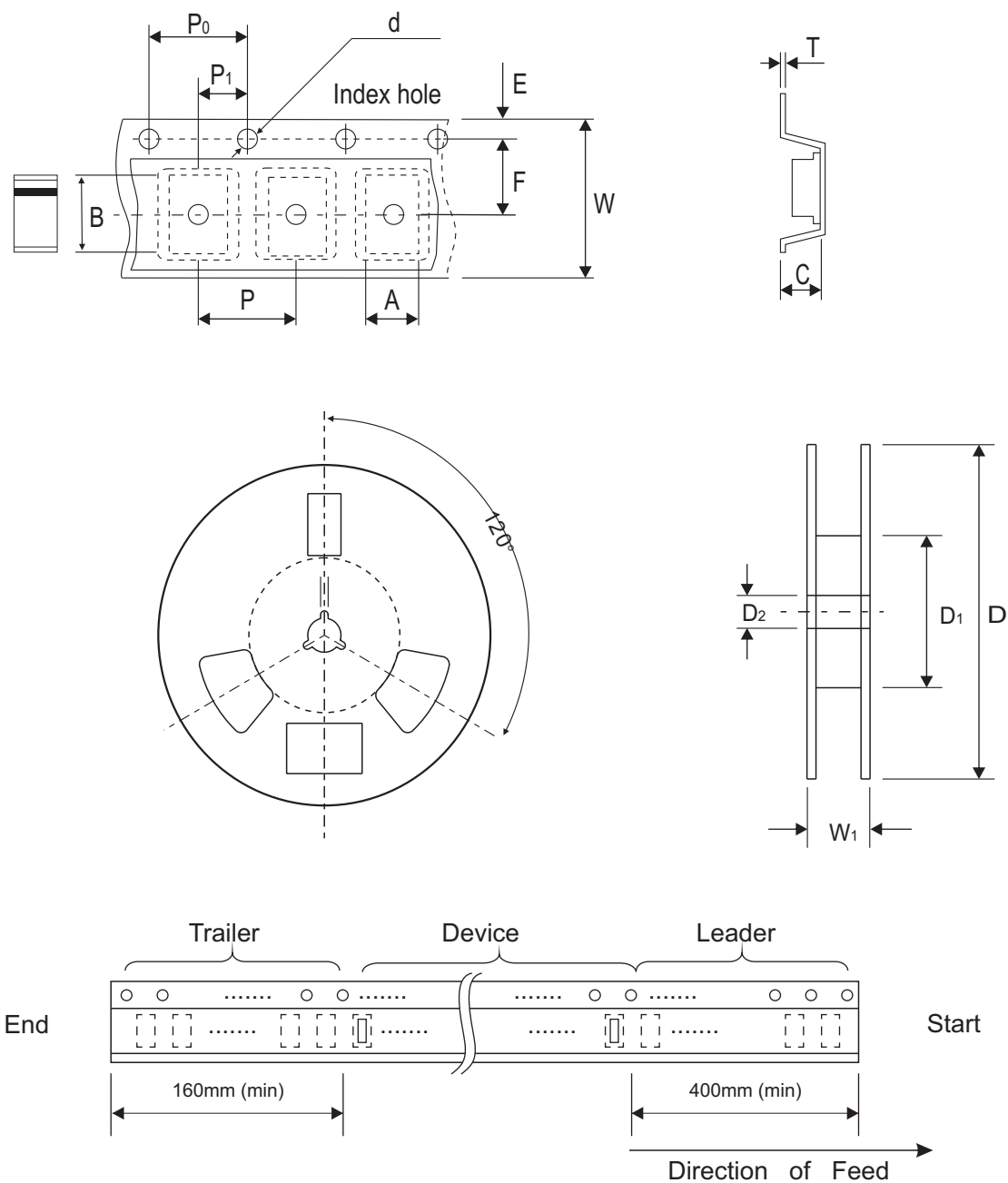


Fig.5 - Typical Reverse Characteristics



Reel Taping Specification



	SYMBOL	A	B	C	d	D	D ₁	D ₂
SOD-123HT	(mm)	2.00 ± 0.10	3.85 ± 0.10	1.10 ± 0.10	1.50 ± 0.10	178.00 ± 2.00	62.00 MIN.	13.00 ± 0.50
	(inch)	0.079 ± 0.004	0.152 ± 0.004	0.043 ± 0.004	0.059 ± 0.004	7.007 ± 0.079	2.441 MIN.	0.512 ± 0.020

	SYMBOL	E	F	P	P ₀	P ₁	W	W ₁
SOD-123HT	(mm)	1.75 ± 0.10	3.50 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	8.00 ± 0.30	11.40 ± 1.00
	(inch)	0.069 ± 0.004	0.138 ± 0.10	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.315 ± 0.012	0.449 ± 0.039

Marking Code

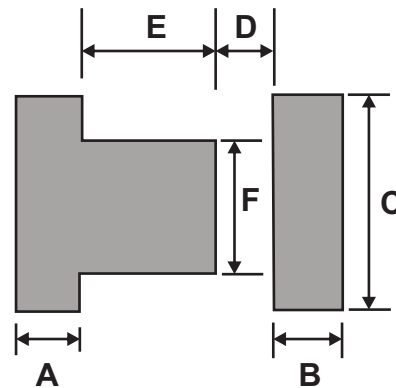
Part Number	Marking Code
CDBMHT340-HF	34
CDBMHT360-HF	36
CDBMHT3100-HF	310



xx / xxx = Product type marking code

Suggested PAD Layout

SIZE	SOD-123HT	
	(mm)	(inch)
A	0.90	0.035
B	0.90	0.035
C	1.90	0.075
D	0.70	0.028
E	1.10	0.043
F	1.20	0.047



Standard Packaging

Case Type	REEL PACK	
	REEL (pcs)	Reel Size (inch)
SOD-123HT	3,000	7

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [Comchip](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [D1FH3-5063](#) [MBR10100CT-BP](#) [MBR1545CT](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [RB551V-30](#) [BAS16E6433HTMA1](#) [BAT](#)
[54-02LRH E6327](#) [NSR05F40QNX5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SK310-T](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-](#)
[TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MA4E2501L-1290](#) [MBRA140TRPBF](#) [MBRB30H30CT-1G](#) [SB007-03C-TB-E](#) [SK32A-TP](#)
[SK33B-TP](#) [SK35A-TP](#) [SK38B-TP](#) [NRVBM120LT1G](#) [NTE505](#) [NTSB30U100CT-1G](#) [SS15E-TP](#) [VS-6CWQ10FNHM3](#) [ACDBA1100LR-HF](#)
[ACDBA1200-HF](#) [ACDBA140-HF](#) [ACDBA2100-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#) [CDBQC0240LR-HF](#) [BAT6202VH6327XTSA1](#)
[ACDBA340-HF](#) [ACDBA260LR-HF](#) [ACDBA1100-HF](#) [SK310B-TP](#) [MA4E2502L-1246](#) [MA4E2502H-1246](#) [NRVBM120ET1G](#)
[NSR01L30MXT5G](#) [NTE573](#)